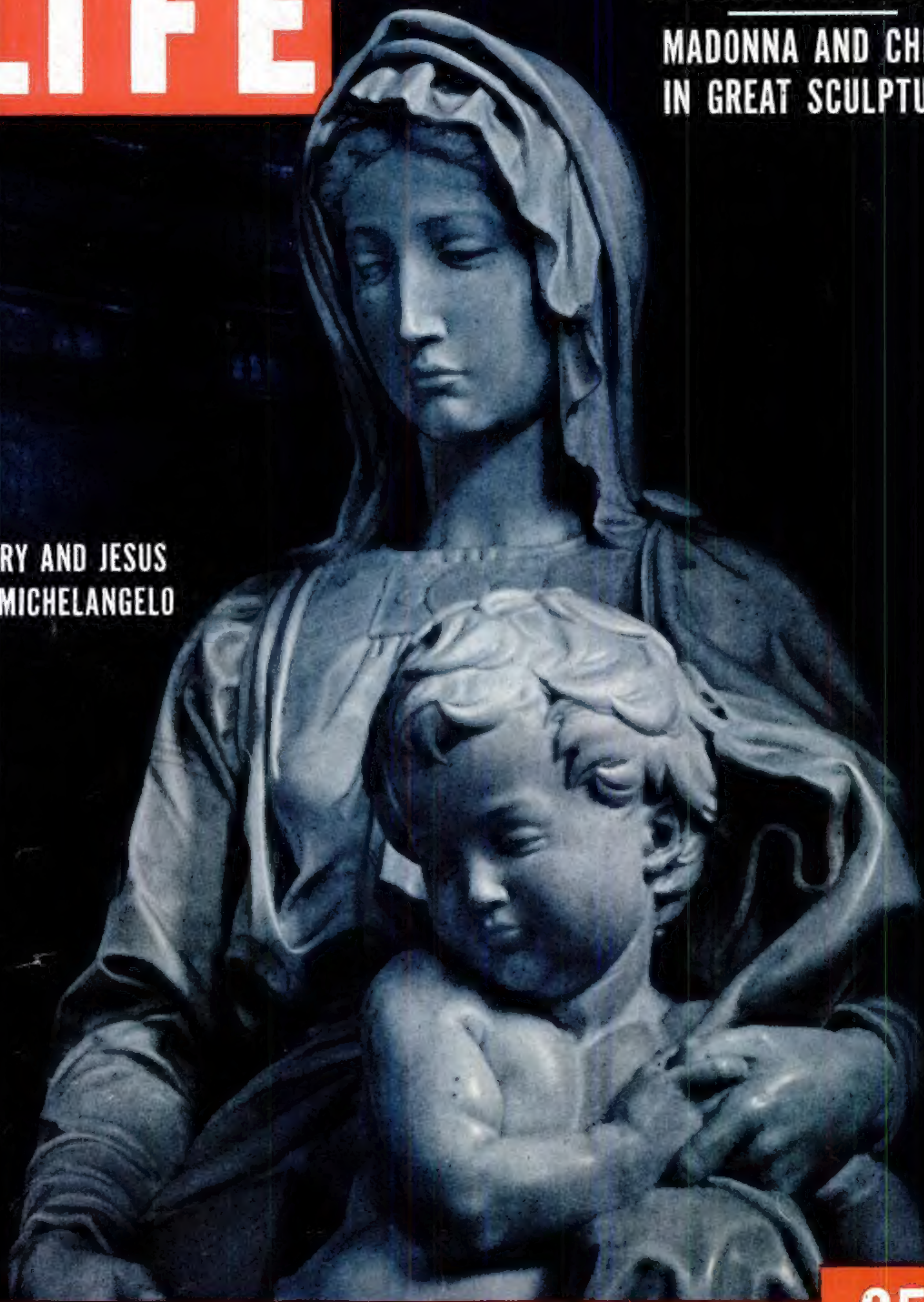


# LIFE

SOVIET SCIENCE: JUST HOW GOOD  
IT REALLY HAS BECOME

MADONNA AND CHILD  
IN GREAT SCULPTURE

MARY AND JESUS  
BY MICHELANGELO



DECEMBER 16, 1957 **25** CENTS



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## Hair color so natural only her hairdresser knows for sure!

Are mothers getting younger or do they just *look* that way? She, for one, has that wonderful wholesome quality—the freshness, the radiant hair color that just naturally keeps a woman looking younger, prettier . . . feeling more confident. And when you think how quick and easy it is to keep hair beautiful, clear-toned and sparkling with Miss Clairol Hair Color Bath, you wonder why *any* woman *ever* should let gray or fading hair age her looks!

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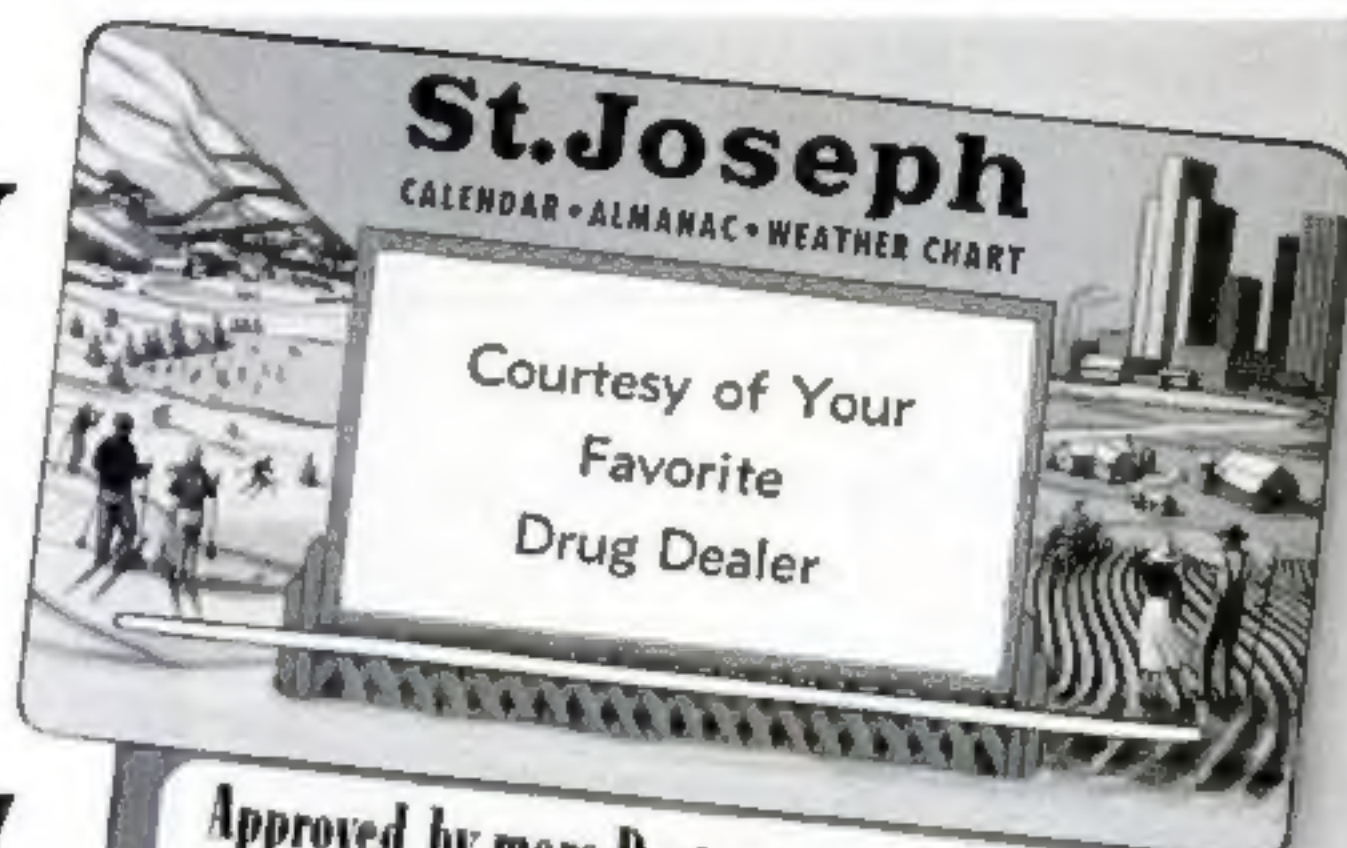
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## Madonna and Child—Eternal 58

In 12 pages of color LIFE shows masterworks of sculpture which through centuries have depicted the Virgin and the Infant Jesus—the Christian embodiment of human and divine love.



BY MICHELANGELO

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ANGEL, "WOLFE" IN PLAY

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LIFE IS PUBLISHED WEEKLY BY TIME INC., 540 N. MICHIGAN AVE., CHICAGO 10, ILL. PRINTED IN U. S. A. ENTERED AS SECOND-CLASS MATTER NOVEMBER 11, 1934 AT THE POSTOFFICE AT CHICAGO, ILL. UNDER THE ACT OF MARCH 3, 1879. AUTHORIZED BY POSTOFFICE DEPARTMENT, OTTAWA, CANADA, AS SECOND CLASS MATTER, SUBSCRIPTIONS \$3.00 A YEAR (IN U. S. A., U.S. IN CANADA).

VOLUME 43,  
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allowed  
to  
love.  
But  
I will  
love  
you  
if  
that  
is  
your  
desire..."



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America's Independent Electric Light and Power Companies\*

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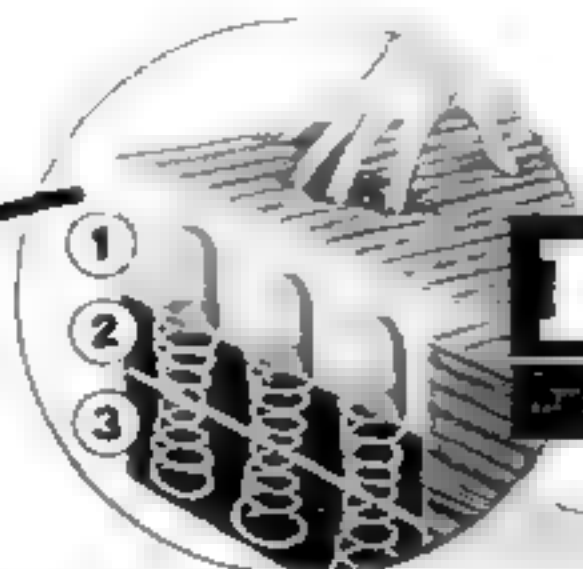
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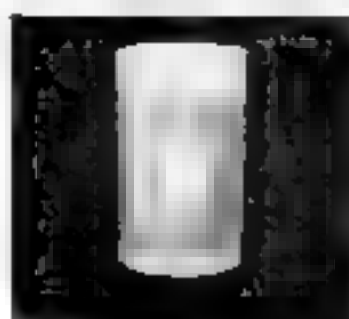
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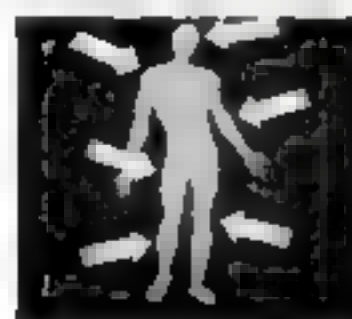
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it dissolves



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**WHY PAY UP TO \$200 EXTRA** for so-called new air springs (they've been tried in buses for several years), when Dodge Torsion-Aire suspension is standard equipment at no extra cost on all Swept-Wing 58 models? That's a question Dodge dealers are asking new car prospects, and backing it up with a "test flight" in the new Dodge. Most noticeable difference between the two rides—

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# LETTERS TO THE EDITORS

## EDITORIAL

Sirs:

"The country needs a symbol of bipartisanship the way it needs a hole in the head Ike is already 'President of all the people'" ("Adlai, Ike and the Political Void," LIFE, Nov. 25). Could it be that you are willing to put your party ahead of your country? Partisanship has warped your thinking to the extent that you would rather have a Republican foreign policy.

DICK OGDEN

Seattle, Wash.

Sirs:

What has happened to the common-sense approach to the Sputnik crisis which you advocated so wisely in your first editorial on this subject? Great effort and much time are necessary to formulate plans if they are to be sound and successful. Surely no one demands action simply for the sake of action.

President Eisenhower has earned our confidence by deeds through the years, demonstrating his sound judgment based on a calm and careful consideration of all the facts at his command. We can help, it seems to me, only by controlling our impatience and withholding our criticism at least until the American programs due to be presented to NATO and to Congress are fully formulated.

WINIFRED CLARK

Sharon, N.H.

Sirs:

Now, as usual, since the real truth about the great "leadership" of the Republican party has shown itself, it has been made clear that the Democrats must come to the rescue. If not, we are doomed.

ERIC D. KOHLER

Vineland, N.J.

Sirs:

I wish to compliment you on your editorial, "Adlai, Ike and the Political Void."

Now that Sputnik and Muttnik are raising Kerr, Byrd, Truman and others to change their speeches to please the public, I suggest that the U.S. soothe the ego of the Democrats by sending up a jackass instead of a dog.

C. W. KING

Claremore, Okla.

Sirs:

It was indeed appropriate that you called attention to the fact that Mr. Adlai Stevenson could only be "deeply grieved" by the Little Rock situation while Mr. Eisenhower "did do something" about it. Clearly Stevenson was remiss in his obligation. He should have called out the Army.

STANLEY GREEN

New York, N.Y.

## CHANGEOVER FOR LASSIE

Sirs:

Thank you so very much for the interesting facts about Lassie and her new family ("A Big Changeover for Lassie," LIFE, Nov. 25). When I first heard of the proposed change, without knowing any of the facts, I must confess I was very disappointed, and a little resentful, because Gramps, Mom and Jeff had worked their way into our hearts. Now that we know why, I would like to say thanks to the old cast, and to wish the new family every success.

EMMA OLIPHANT

Alburnett, Iowa

Sirs:

I wish you had said a little more about the future of Jeff (Tommy Rettig). What will happen to him?

Mrs. J. S. GORDON

Salt Lake City, Utah

● Tommy Rettig, now 16 and a student at Chaminade High School in Los Angeles, plans to begin a new TV series when he graduates.—ED.

## EYEFUL FROM ITALY

Sirs:

LIFE's Nov. 25 cover and pictures on Elsa Martinelli ("Newest Eyeful from Italy") really bowled me over. This was the best photography of its type that I have seen.

FRANCIS H. BINGHAM III

Washington, D.C.

Sirs:

Any woman who spends 30 minutes on her face alone could not be truly beautiful.

Perhaps this left her no time to comb her hair for your cover.

R. A. SUMMEYAN

Newton, Mass.

## THE WORLD'S WEEK

Sirs:

After seeing Harry Conway being plucked off the ground by airplane in the "fastest successful body snatch in history" (A Look at the World's Week, LIFE, Nov. 25), your readers might like to know about the first man to do this.

He was my cousin, Paratrooper 1st Lieut. Alexis Doster, who in September 1943 was swept off a field at Wilmington, Ohio by a U.S. Army plane. Months later Alex died of polio in Egypt. Incidentally, there was another chap around at the same time who volunteered the day after Alex did but failed to get the job. His name was S/Sgt. Harry C. Conway.

LIEUTENANT JOHN VANDERPOEL  
Lincoln, Mass.

CONTINUED



A precious moment captured forever

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CHRISTMAS magic will be everywhere—get ready to capture your share with Sylvania Press 25 flashbulbs.

These "all-purpose" flashbulbs give your camera just the right amount of light. Christmas-tree close-up or family-packed long shot, slow or fast action, you just press the button and flash. Gather the smiles, enjoy the fun for years to come.

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LIEUTENANT DOSTER IS SUCCESSFULLY SNATCHED BY A PLANE IN 1943



sniff it...



sip it...



savor it...



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## LETTERS TO THE EDITORS

CONTINUED

### STALLED—AND UNWANTED

Sirs:

Congratulations on your dramatic presentation of the plight of the Hungarian refugees left in Europe ("Stalled—and Unwanted," LIFE, Nov. 25).

The purpose of the Zellerbach Commission was to explore the plight of the more than 200,000 Iron Curtain refugees (Hungarians included) now in Europe. The resettlement of 165,000 Hungarians in so short a period of time demonstrates how much can be done when the will is there.

The entire refugee backlog in Europe could be wiped out if the Western nations would approach the problem with the same spirit they showed in the case of the Hungarian refugees.

ANGIER BIDDLE DUKE  
Co-chairman

Zellerbach Commission  
New York, N.Y.

Sirs:

You show a young Hungarian who lost a hand in the revolt now "stalled and unwanted" in a German camp. Could I sponsor him as an immigrant? What would all of this involve?

W. L. TUCKER

Richmond, Va.

• The International Rescue Committee, 251 Fourth Ave., New York, N.Y. will obtain his name. Visa application must be made through the U.S. consul in Munich.—ED.

### ARCHITECTURAL SHOW

Sirs:

Walter Gropius' 1919 principles to integrate arts for a complete building are a poignant commentary on American architecture ("Biggest Architectural Show," LIFE, Nov. 25).

Cultural and esthetic perception in the U.S.A. has been painfully slow.

RICHARD L. CROWTHER  
Denver, Colo.

Sirs:

I was surprised and gratified to find in your report on the Interbau Exhibition, Berlin, an appraisal of the influence of the Bauhaus. As its founder, I would like to thank you for showing how a tragic gap in the historical development of modern architecture in Germany has been finally closed through this exhibition.

WALTER GROPIUS  
Cambridge, Mass.

CONTINUED

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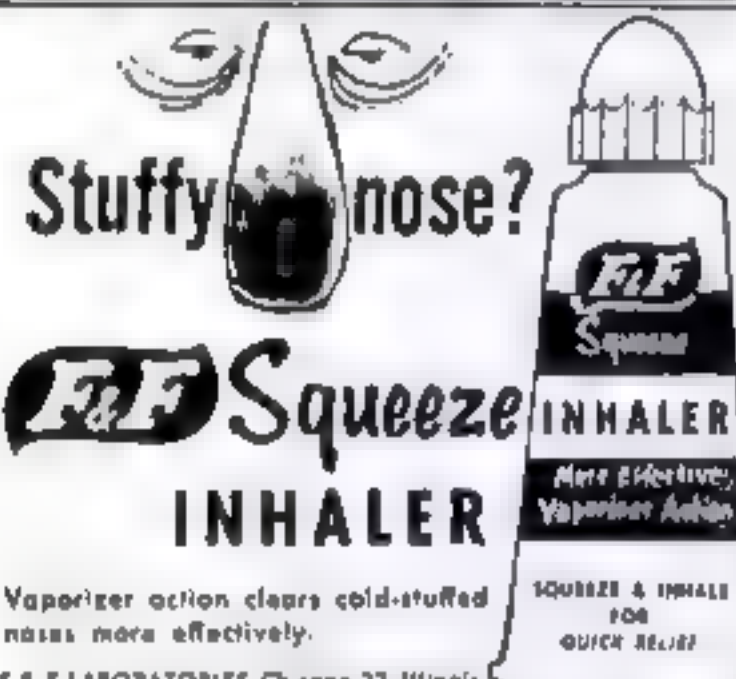


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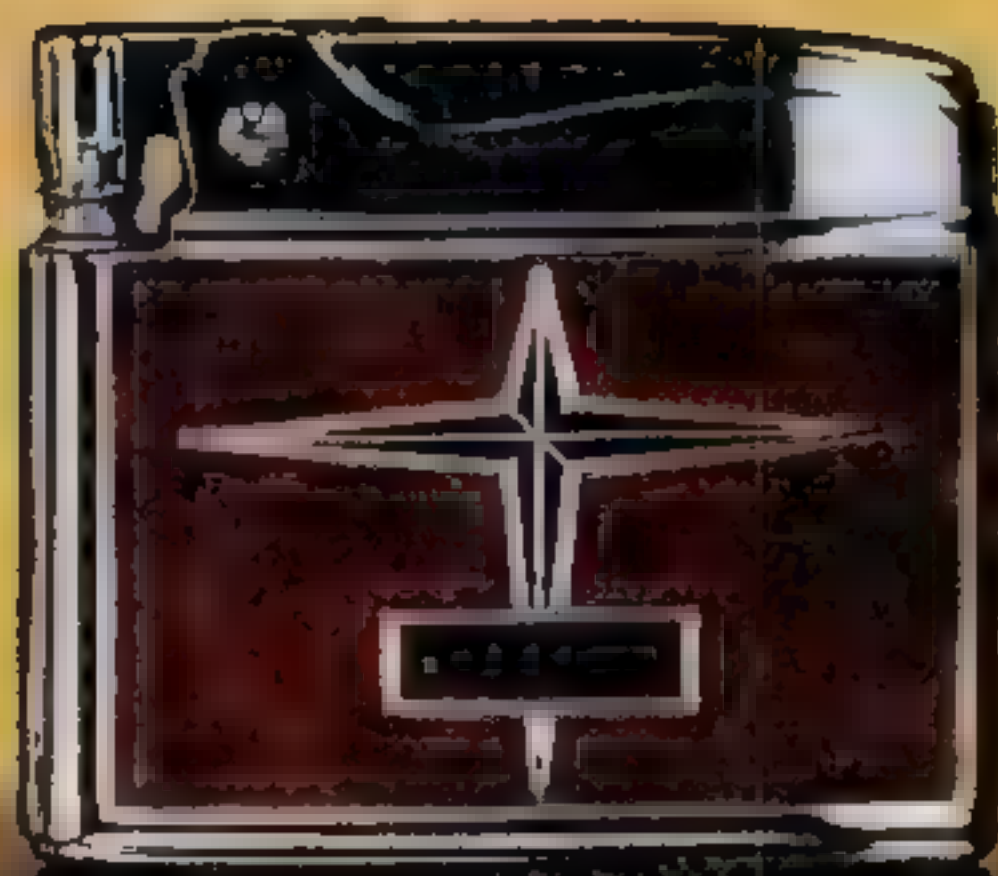
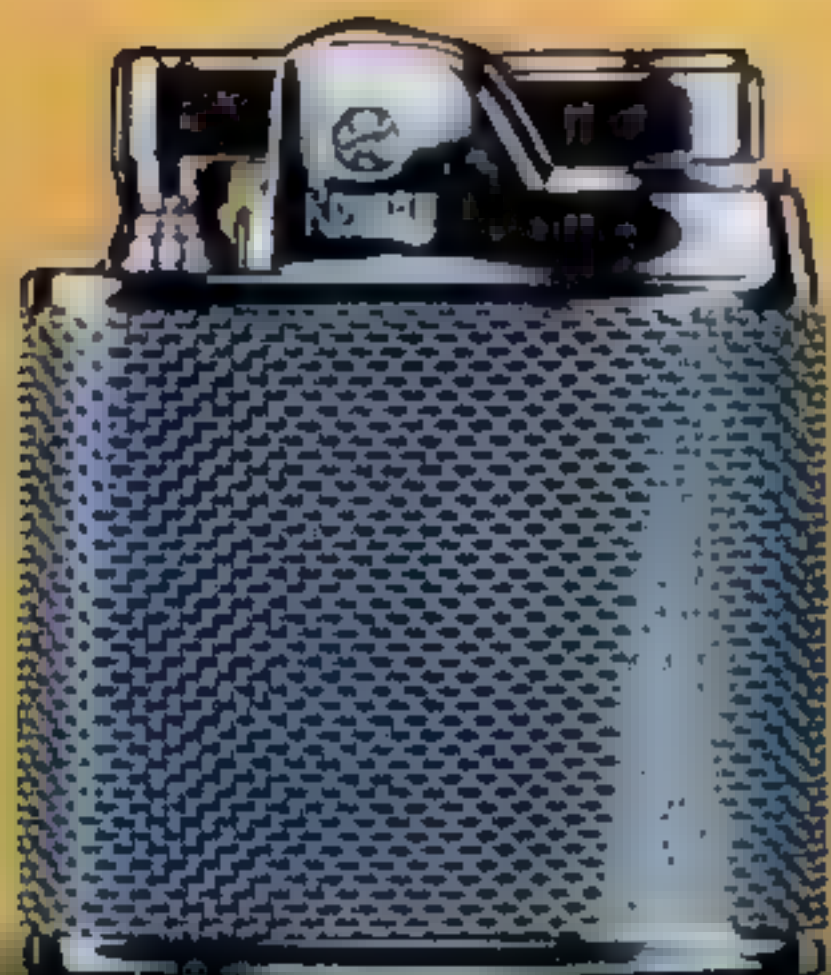


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## LETTERS TO THE EDITORS

CONTINUED

### MASTERPIECE MARKET

SIR:

Your fine depiction of the sale of the Georges Lurcy art collection at Parke-Bernet galleries is missing an important brushstroke ("Peak in Masterpiece Market," LIFE, Nov. 25).

The sale utilized television in an auction for the first time through a closed-circuit TV system in two galleries adjacent to the main room.

ALAN KESSLER

Washington, D.C.



TV BIDDERS AT ART AUCTION

### STRAVINSKY

SIR:

"The Fantastic World of Stravinsky" (LIFE, Nov. 25) was outstanding—a truly great composer.

J. J. KROENKE

Jackson Heights, N.Y.

### CLOSE-UP

SIR:

Thank you for the picture of a great coach, Terry Brennan ("A Coach on a Critical Spot," LIFE, Nov. 25).

J. KROENKE

Belleville, Ill.

SIR:

Before Terry Brennan enshrines his go pep talks he should compare his own win and-loss record (won 26, lost 14 and 0—630) with the achievements of his Notre Dame coaching predecessors, Knute Rockne (he won 105, lost 12, tied 3—898) and Frank Leahy (won 87, lost 11, tied 9—888), both of whom emphasized pre-game and halftime dramatics.

FRANK H. KELLY

Yonkers, N.Y.

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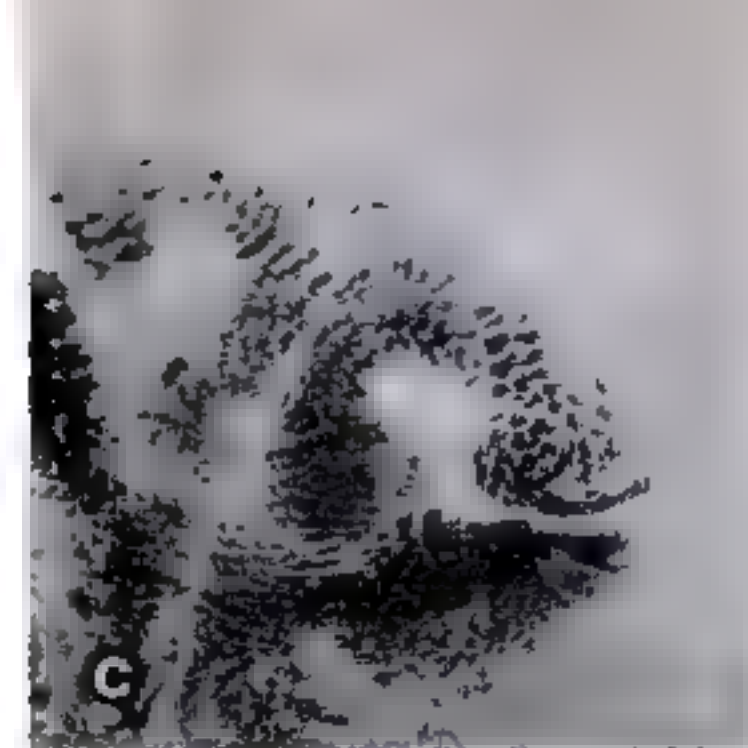
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## TRY TO MATCH DOGS' NOSES

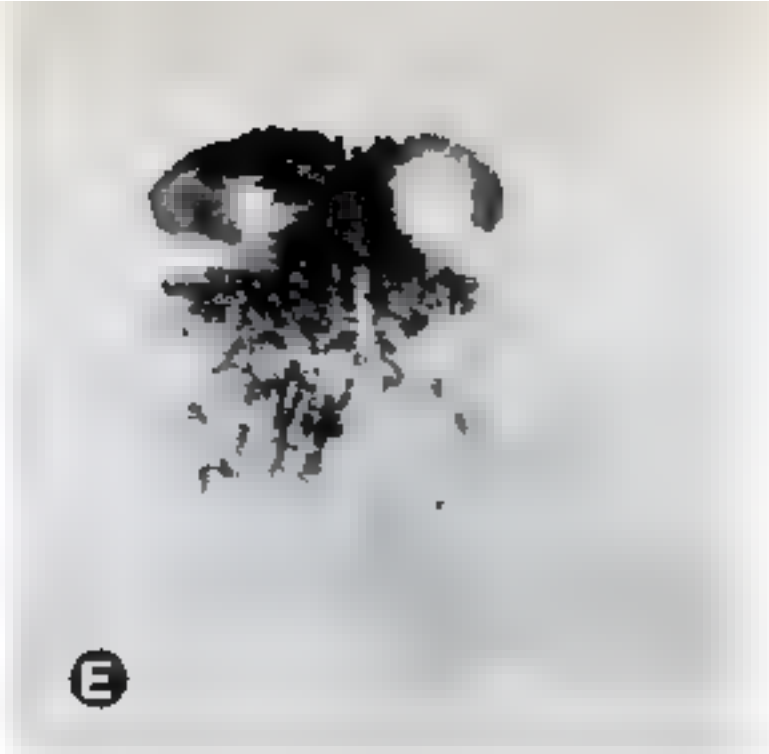
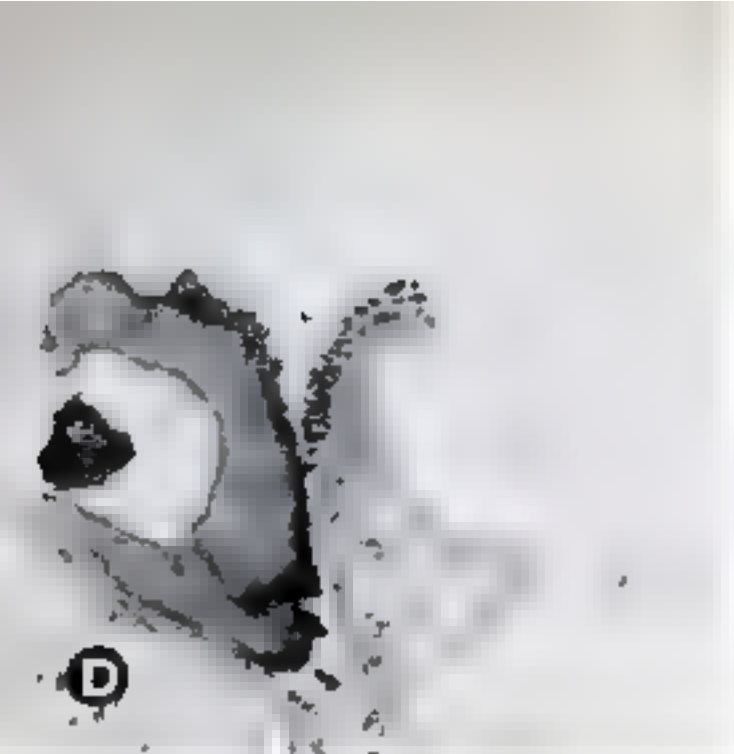
The patterns above are something very few people have ever seen before. They are dog noseprints, the canine equivalent of human fingerprints, and were made for a new dog insurance company to identify its policyholders (*below*). Each is a pedigreed dog from championship stock, whose life is insured by Animal Insurance Co. of America. The boxer, Duchess (*left top*), is insured for \$250. The toy poodle, Hercules (*bottom left*),

who works as a model for dog food advertisements, is insured for \$600. The dachshund, Taffy (*center*), has a \$300 policy, and the Airedale, Lucky Lady (*top right*), a \$400 policy. The basset, Tobey (*lower right*), is a champion and the most heavily insured, for \$1,000.

To make a print the owner wipes the insuree's nose dry, inks it with a pad, then presses it on the space provided in the insurance application







# AND IMPRINTS

form. Noseprints differ in overall shape, the canal lines and spacing of pores. Even dog lovers will find it hard to identify a dog by its unfamiliar nose print. As a guessing game, readers are invited to match the prints above with the dogs below. For the answers, turn the page upside down.

THE ANSWERS can be had by matching letters above with numbers below: A-3; B-3; C-1; D-1; E-2.





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# TOO MUCH TALK TOO SOON ADDS UP TO DISASTER



A SIGN ON ROAD TO VANGUARD TEST SITE SUMS UP THE VERDICT OF MANY

U.S. prestige has been dealt a grave blow because Vanguard, the Navy missile which was to launch the nation's first satellite, burst into flames and toppled. Our technological reputation, which had already declined as a result of Russia's two Sputniks, sagged further. And it was a humiliating defeat on the propaganda and diplomatic front. Now U.S. diplomats face the bitter prospect of going to the NATO conference in Paris next week with diminished authority in their search for a strong Western military posture. Other nations are laughing.

The technological defeat was the least serious. Missiles are complicated gadgets and, given time, the Navy's missilemen will correct the cause of Vanguard's failure. But the loss on the propaganda front is not so easily repaired. We were already on the defensive because of Russia's satellite successes. In a mistaken effort to recoup, the Administration had started to crank out propaganda on Vanguard before it had anything

to brag about. Last October President Eisenhower himself announced in a press conference that Vanguard's first test launching was scheduled for this month. The Russians made similar predictions about their own satellites and may have had failures, too. They did not, however, follow up with detailed bulletins describing every countdown, gust of wind, technical delay and proposed firing time. So, as of today, the Russians can brag about their satellite successes while we can only squirm in our embarrassment over unfulfilled promises.

Free people have a traditional right to know what's going on. But the Administration should have realized that, with the international stakes so high and our prestige so fragile, the public would have been glad to do without detailed news of the satellite until it was safely up. Senator Lyndon Johnson articulated this last week: "I shrink a little inside of me whenever the U.S. announces a great event and it blows up in our face."

THREE SECONDS AFTER FIRING, THE BURNING MISSILE IS HIDDEN BY FLAME BILLOWING UP BETWEEN VANGUARD GANTRY (RIGHT) AND OTHER MISSILE CRANES







**FUELING CREW** at Cape Canaveral, Fla. stand in plastic suits under shower to wash off the residue of any fuming nitric acid they might have picked up during fueling of one of the rocket's three stages.



**ROCKET OFFICIALS** meet in New York on eve of firing. Vanguard's Propulsion Chief Kurt Stehling (right) chats with Defense Department missile head, William Holaday, at American Rocket Society party.

## FLAMES ARE FOLLOWED BY A FUTILE BEEP

It took just seven seconds to set back a nation's pride. Poised on its launching pad at Cape Canaveral, Fla. the slender, powerful Vanguard rocket stood ready to carry aloft the first U.S. test satellite. On a beach four miles away—as close as they were permitted to get—hundreds of watchers clustered anxiously, awaiting the end of the countdown. It came at 11:45 a.m. The missile rose to an altitude of three feet, suddenly lost its thrust, fell back, and toppled. A burst of flames was seen at the rocket's base. The bewildered watchers on the beach heard only the great rushing sound of burning rocket fuel which built rapidly up to an earth-shaking roar. They heard no explosive boom, yet in two seconds the missile had disappeared. In its place was a fat, orange-red blob of flame 120 feet high.

Though public attention was focused on the satellite in its nose, the Navy had emphasized

that the Vanguard's firing was merely a first test of the complete three-stage rocket. No one could say precisely what had gone wrong, but the Vanguard had, in its brief abortive flight, already radioed some 6,000 bits of information which, when sifted, might provide some clues. Meanwhile the best preliminary guess was that, through the malfunction of some individual part of the many thousands in the rocket, the fuel system failed to maintain enough thrust to launch the 11-ton craft successfully.

Seven seconds after launching, the missile was a ruin. The satellite itself, thrown clear, had landed 75 feet away in the sand. Scorched and split, its innards were still intact and its transmitters were still sending out their futile beep. "It seems almost inhuman to let the poor thing go on," muttered a female reporter. "Someone should go out there and kill it."



**WATCHING ON BEACH**, stunned spectators show dismay as Vanguard missile falls back onto launch-

ing pad. Billowing flames from rocket are reflected in the dark glasses of man and woman (left, rear).

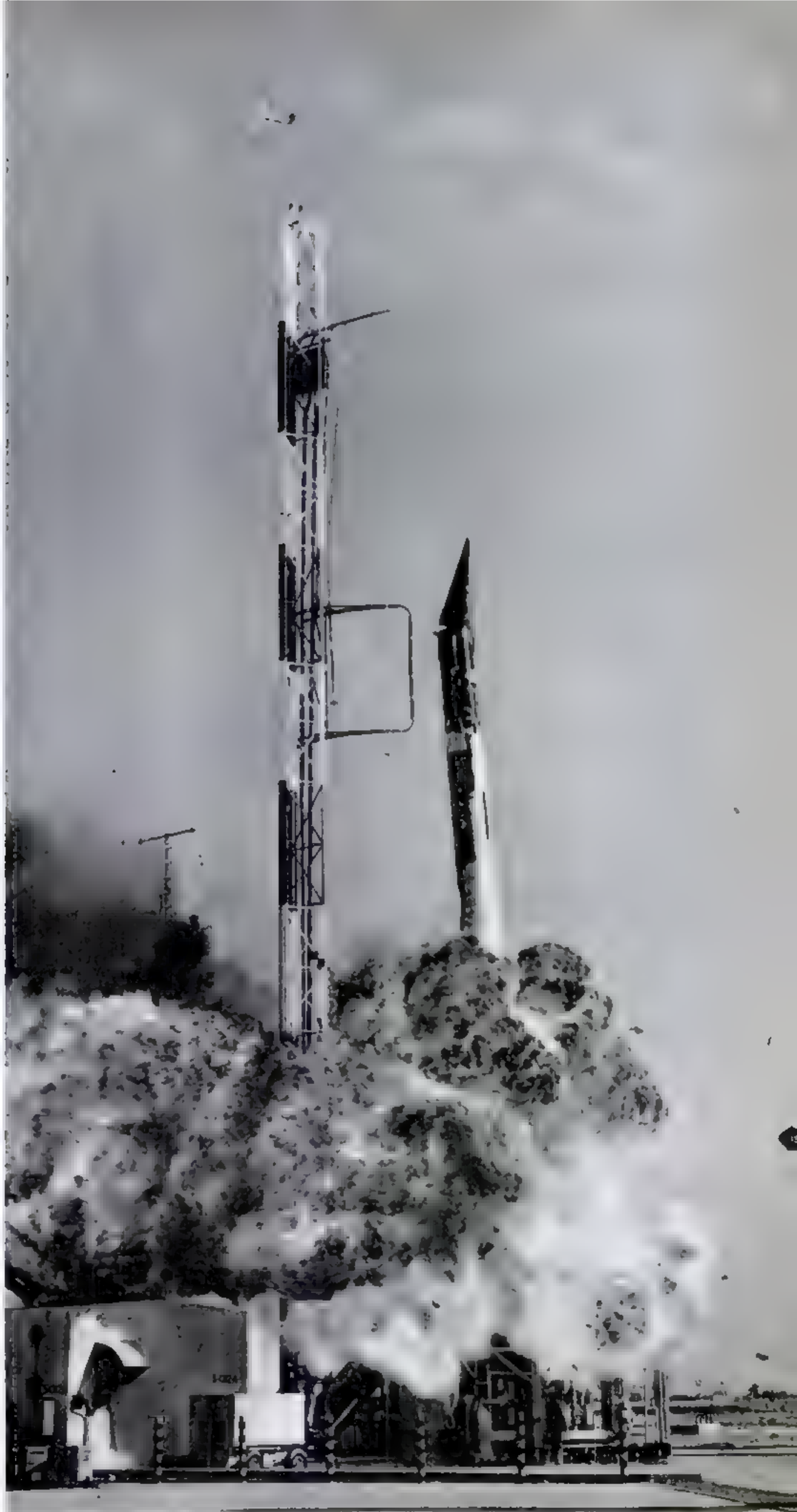


**CRASHING TO EARTH**, missile falls two seconds after take-off. The flames spouting from its base are





already spreading to mast *(left)* which holds cables that power electronic equipment before launching



**LOSING NOSE CONE**, which leans to right before toppling, missile starts to wobble as flames shoot

upward to consume second-stage rocket. The surrounding area is sprayed with bits of flying debris.





**UPPER STAGES** of Army's satellite launcher, made by Caltech, are prepared for spin tests by ABMA engineers in Huntsville. At top is the satellite (instrument carrier is white, rocket section is black). Drapes cover secret area. The fat lower section is rocket stage which will be separated from the satellite in space.



**SHAPE OF SATELLITE** is shown in a mock-up at Caltech by Dr. William H. Pickering, director of Jet Propulsion Laboratory. Top half carries instruments, transmitters. Lower half is final-stage rocket, which remains permanently attached to the instrument carrier. Whiplike protrusions are antennas for transmitters.

## ARMY HURRIES WITH ITS ENTRY

The Navy's Vanguard failure has put the Army more prominently in the satellite picture. And, despite pious Defense Department declarations that no interservice rivalry exists, the Army is obviously eager to take on a major role. Given a cautious order from the Secretary of Defense to "supplement" Project Vanguard, the Army Ballistic Missile Agency (ABMA) at Huntsville, Ala. has been crashing ahead with its own satellite program directed by Dr. Wernher von Braun (*LIFE*, Nov. 18). The Army is not expected to get its satellite up for at least a month or more.

The Army satellite, unlike the spherical Vanguard and Sputnik I, will be a cylinder, which permits more efficient packing of instruments. Now being built by Caltech's Jet Propulsion Laboratory, it will be 80 inches long and six inches in diameter. It will carry two radio transmitters and instruments to measure temperatures and study cosmic rays.

The rocket being prepared to launch the satellite is a modified Jupiter-C, which is probably a three-stage or four-stage rocket. Over a year ago a Jupiter-C went 3,500 miles and reached an altitude of 600 miles. It was a Jupiter-C that carried aloft the nose cone, displayed by President Eisenhower on television, that had successfully re-entered the atmosphere. This feat had been accomplished in studies for the full-sized Jupiter (*opposite page*), the Army's biggest missile, which will have a 1,500-mile range.





**ARMY JUPITER** is pushed upward by white-hot column of flame from launching platform at Cape Canaveral, Fla. Irregular orange cloud spilling down along

flame is overflow of liquid oxygen used in fuel mixture. Black stripes painted on the missile help trackers to follow its angle of flight through their telescopes





**ANTIAIRCRAFT MISSILE** may be the forerunner of anti-missile missile. This is the Air Force's Bomarc taking off in a blaze of flame on test flight. Built by

Boeing as a supersonic interceptor of enemy bombers, the Bomarc will have a range of about 250 miles and reach a maximum altitude of more than 60,000 feet.



# WORK STARTS ON 'AUNTIE,' A MISSILE KILLER

by DON SCHANCHE

**W**HILE both Army and Air Force are pushing hard to perfect their offensive missiles, they are also in the preliminary stages of developing anti-missile missiles. The Army's view was expressed by a general a few weeks ago who commented that, now, the best defense is not necessarily a good offense. The best answer to the intercontinental ballistic missile, the Army claims, is a defensive missile which can blow the enemy warhead out of the sky. Although the Air Force feels a good U.S. ICBM could deter the enemy from launching an ICBM attack, it is matching Army plans. Both services believe a defensive missile could be available within about five years.

The technical problems involved in perfecting an "Auntie," as the anti-missile missile is called, are staggering. It must be able to find and destroy an enemy warhead only about a yard wide as it arches through space 600 to 800 miles above the earth at 10,000 miles an hour. This requires a warning network which will not only detect enemy ICBMs but also will instantly compute their trajectories and distinguish between real warheads and junk sent along to confuse defensive radar. Finally, the Auntie must intercept the ICBM, as far from North America as it possibly can.

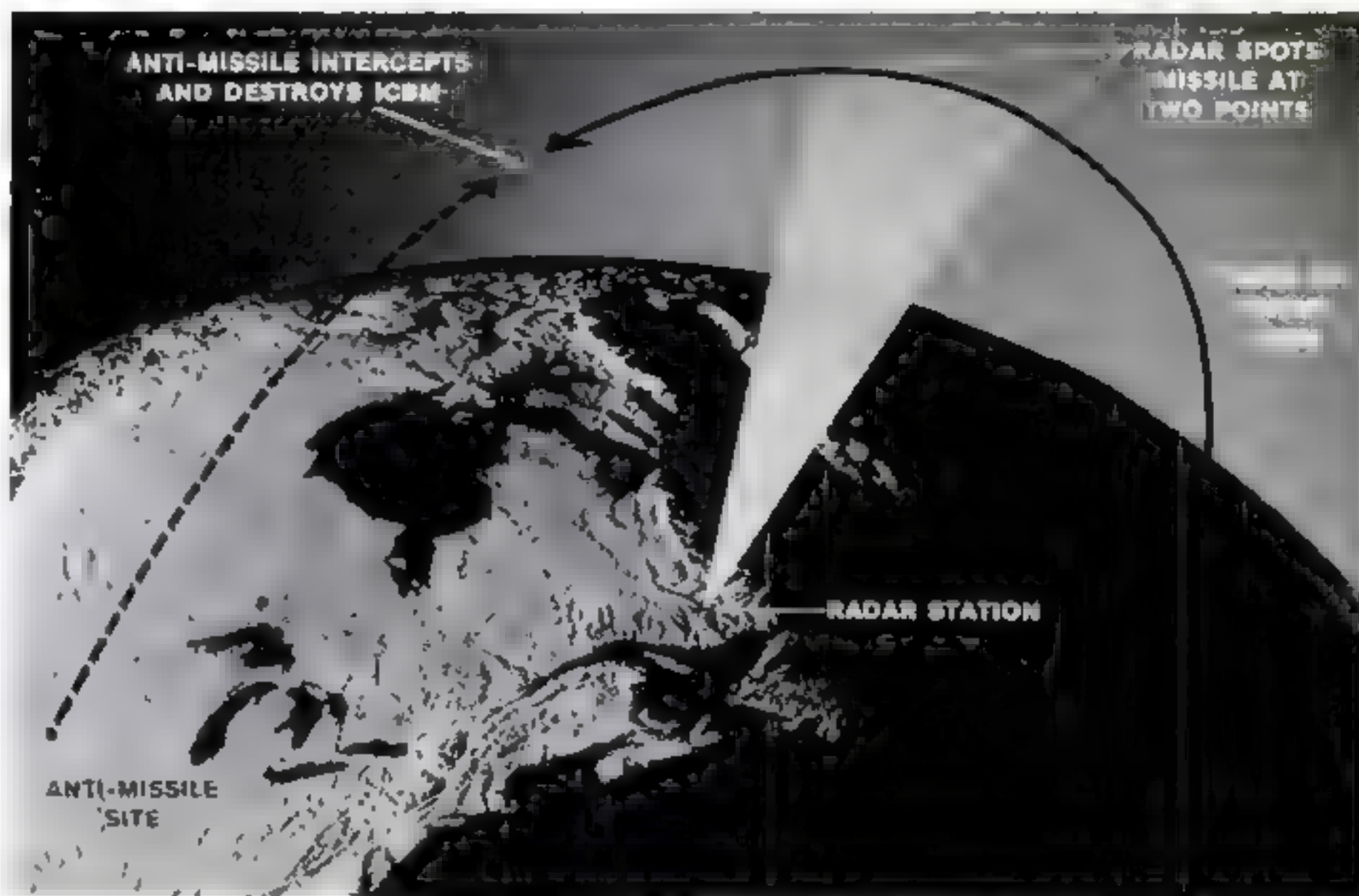
For an idea of the complexity of this operation, imagine 200 soldiers scattered through a pitch-dark room 100 miles square. One of these invisible soldiers has a weapon. Within five minutes, you must pick him out and kill him, also making sure his weapon cannot go off accidentally even after he is dead.

For the first part of this job, experts envision a complex detection network like the Distant Early Warning radar line now in operation in the Alaskan-Canadian Arctic. Computers linked to the radar system would calculate the enemy missile's trajectory within seconds. Missiles emplaced in the target area would then travel up this pathway, meeting the attacking missile head-on.

The Army's nomination for a weapon to do the job is a projected missile called Nike Zeus, which would have a range of about 200 miles and could be placed in operation fairly quickly at a cost of between \$6 and \$7 billion. The Air Force approach is somewhat different. Instead of developing an Auntie immediately, it would push ahead with present work on missile detection. The necessary computing and guidance systems and the weapon itself would be phased into the program gradually, making it possible to use still emerging discoveries and techniques for the development of a faster, more accurate missile with a range of about 1,000 miles. A half-dozen companies are working separately on design studies for the Air Force project, which is called Wizard II.

The decision on how to proceed with the anti-missile program will be made ultimately by the Defense Department's new "single manager" missile agency, announced last month by Secretary of Defense McElroy.

Whichever program is selected, the development problems will be enormous. Although little can be said about the top secret Army and Air Force projects, it is possible to get some idea of the scope of the problems by studying the Air Force Bomarc (opposite page). This is a production-line anti-bomber weapon



ANTI-MISSILE SYSTEM is explained in drawing of possible ICBM attack against SAC headquarters in Omaha. A radar station in Canada picks up the

approaching ICBM at two points to determine trajectory and target, electronically alerts anti-missile battery which fires along trajectory to destroy ICBM.

which the Air Force thinks may provide valuable clues to development of the Auntie.

The Bomarc is a highly effective guided missile with a maximum range of about 250 miles. In recent test firings it has knocked down target aircraft beyond 100 miles. The Air Force has committed about a quarter of a billion dollars to development and production of the Bomarc, and four east coast launching sites have already been selected for it.

Development of the Bomarc was as challenging and often as frustrating as that of any guided missile in the U.S. arsenal.

When Boeing missile experts first set out to develop the Bomarc in 1949, they set down design characteristics not only for the missile but also for its support equipment and even for a complex automatic ground control radar and computer network which would be a filter center for all U.S. air defense. "To take a complete system like that and develop it," says Harvey Gunning, Boeing's chief of missile testing, "is analogous to inventing all at once the airplane, airfields and runways, air traffic control, pilots and even the Stillson wrenches you need to fix everything."

In 1952 a Bomarc was shipped to Cape Canaveral for firing. In the weapon's nose was a transmitter which would send a mass of telemetry information on the Bomarc's performance to tape recorders on the ground. The test almost ended in disaster. For five seconds the missile rose straight up. Then suddenly it turned two wild loops and blasted into the ground less than 100 yards from the control bunker. Total flight time: eight seconds.

But after checking their recording tapes, the testers were exultant. For those few seconds the telemetering equipment had worked perfectly, and the testers had a precise record of everything that had gone wrong. For one thing, they discovered that the rocket engine had burned only sporadically, probably because the fuel had sloshed in the tanks. And the maze of electronic connections had

been thrown into chaos by the tremendous vibration of the motor.

To help solve the problem of vibration, Boeing built a vibrator in which to test components before the weapon was put together. This was a difficult task. Every time a truck rolled by outside, its vibration ruined the test. The company finally had to pour two and a half tons of concrete into the base of the test vibrator and rig a complicated apparatus of wound coil springs to keep out unwanted vibrations.

This process of developing test equipment to test test equipment—"reliability research," as it is called—is probably the most important single element in missile building. It is easy to see why. There are more than 36,000 elements which must function perfectly to make the Bomarc fly. Even if each part fails only once in every 100,000 tries, according to a Boeing expert, only about 7 out of 10 missiles fired will be completely successful.

In the Auntie the problem of reliability will be even greater. The Bomarc, although it can be fired less than 30 seconds after warning, needs almost two minutes beforehand to get its gyros and electronic gear warmed up. With an Auntie there will not be two minutes of advance warning. Electronic components will have to be maintained in a "warmed-up" condition—which means that they could wear out before the missile is ever used.

In flight the anti-missile missile will have to be so fast—perhaps 10,000 mph—that the stresses on all of its parts will be many times greater than they are on a relatively slow interceptor like the 2,000-mph Bomarc. Despite all this, the Auntie will be expected to soar swiftly into space, find its target unerringly, and knock it from the skies. At the target a proximity device will set off a nuclear warhead. Either the heat of the explosion or its atomic radiation will neutralize the enemy apparatus—leaving, at the most, nothing more dangerous than a man-made meteorite plunging harmlessly into the atmosphere.



## IN A CALIFORNIA CLUB—HOT FUELS, A MOUSE AND A STRAY



**HEATING UP FUEL.** Ronnie Nelson, 19, wears a mask as he stirs a mixture of sulphur and zinc dust.



**LUCKY MOUSE,** which missed trip when its rocket did not go off, is inspected by owner Brian Tiep.



**ERRATIC FLIGHT** over Mojave Desert is taken by a two-stage rocket built by two college boys. It had

## FROM COAST TO COAST, U.S. YOUTH GETS ITS ROCKETS UP IN THE AIR

If U.S. educators now start to put added emphasis on science in the schools they should find an eager, built-in market for it. Last week U.S. youngsters seemed to be firing off rockets all over the place. In Minnesota a high school group sent one rocket about 1,700 feet into the air with a mouse as a passenger. The mouse died when the rocket hit earth, but the students are going to try again with a tiny ejection seat for the mouse. Many of the student rockets failed to go off and others took an erratic course. A fatality occurred in Texas when a high school science teacher was killed and six students were injured in an effort to fire a small test rocket on the school sidewalk.

Adult scientists were full of admiration for the zeal displayed by the youthful rocketeers. The students were getting their ideas from science teachers, textbooks and magazines and were scrounging through hardware and chemical supply stores for the cheapest materials. But scientists cautioned parents against letting the youngsters experiment with

dangerous fuels and fuses without first getting the advice of experts. Firing the rockets should be done under close community supervision.

One of the most seasoned groups of budding missilemen is located in Glendale, Calif. where 25 high school and college boys form a chapter of the Rocket Research Society. When their rockets are ready, they go to the nearby desert where they can fire at will without much danger of hitting anybody. But each rocket is given a careful countdown to make sure everyone has taken cover, and is fired in professional style by remote control from inside a concrete blockhouse.

At Providence, R.I. last week, students at two schools tried out nine rockets. Four were successful—a respectable percentage, even by professional standards. Dealers ran out of zinc dust which, when carefully mixed with sulphur, makes a good fuel. A local manufacturer who agreed to help the rocketeers found his hands full. "These kids," he said, "give me as much trouble with their specifications as the U.S. Air Force."

## IN A PRIVATE SCHOOL—A WINTRY MEET

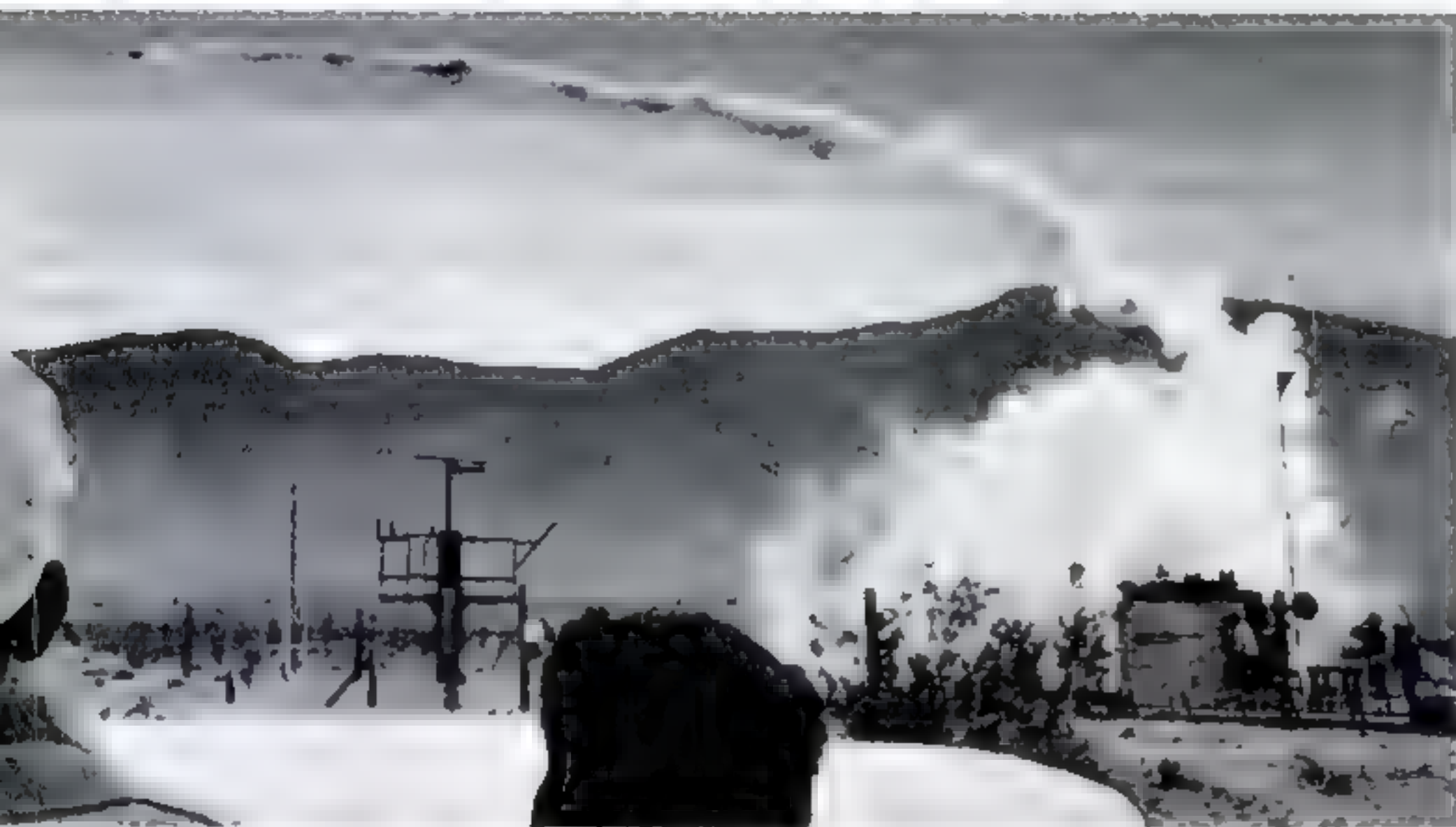


**EXPERT ADVICE** is given students at Moses Brown School, Providence, R.I. by Science Teacher Bill Bixby (right) and Carroll Wilson, former AEC member.



**HARDY ROCKETEERS** from the school prepare to launch despite snowstorm. Carter Buckley, 17 (first row standing, second from left), got his to 1,650 feet.





exploded prematurely as it was launched, sending second stage scooting sideways instead of straight

into air. No one was hurt. Others fired on the same day were more successful, one going to 5,900 feet.



**POOLSIDE TEST** in backyard is given a rocket by Dean Haddon, who has built 11 of them in 2 1/2 years.

## IN A PUBLIC SCHOOL—POLISH, PUSH AND POW!



**POLISHING ROCKET** in his workshop, Dick Cadogan is aided by Dave Petty (left), Charles Eldredge.



**PUTTING IN FUEL**, the boys use a broomstick to tamp down their own zinc dust sulphur formula.



**LAUNCHING THEIR ROCKET**, East Greenwich R.T. builders let Angela Springfield press the switch.

from behind barricade of overturned picnic tables. Rocket stayed on the ground but it now went up





## AIR FORCE AND SCIENTISTS ISOLATE THEMSELVES TO MAP FUTURE

In a week when new ideas of technology were badly needed, top generals of the U.S. Air Force met quietly with top U.S. scientists in a desert hideaway. Between sessions at a Chandler, Ariz., resort hotel which had been emptied of guests in preparation for the Air Force talks on fuels, nuclear physics, electronics and geophysics, leaders of the retreat gathered for this portrait. They include 1) Dr. George Valley, chief Air Force scientist; 2) General Nathan Twining, chairman of Joint Chiefs of Staff; 3) James Doolittle, chairman of Air Force Scientific Advisory Board; 4) Dr. Theodore Von Karman, senior scientific adviser; 5) General Edwin Rawlings, Air Materiel Command; 6) Lieut. General Joseph Atkinson, Air

Defense Command; 7) General Thomas Power, SAC commander; 8) General Earle Partridge, North American Air Defense; 9) Dr. Clark Millikan, aircraft adviser; 10) Dr. Fred Whipple, director of Smithsonian Astrophysical Observatory; 11) Dr. H. Guxford Stever, associate dean of engineering, MIT; 12) Richard Horner, Assistant Secretary of Air Force for research and development; 13) Lieut. General Donald Pitt, Air Force development chief; 14) Lieut. General Sam Anderson, Air Research and Development Command; 15) Dr. Edward Teller, nuclear physics adviser; 16) Paul Nitze, Air Force planning consultant; 17) Robert McNamara, State Department consultant; 18) Dr. Ivan Gettings, electronics adviser.



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# EUPHORIA AND THE SCYTHIANS

EDITORIAL

*The U.S. public has shown its loud and justified alarm about the onset of the Sputnik era. A more satisfactory reaction than alarm is called for. The article on page 108 shows how widespread and permanent the competition has become. To surpass it requires the redirecting of some current American values. Here we have resorted to the lens of fable, which often gives a clearer picture of our values than the most extensive restating of facts.*

It was the beginning of winter in the Republic of Euphoria. The first snows were melting harmlessly against the panes of the overheated glass houses. The stores were bright with the artificial light at which the Euphorians excelled. The children of Euphoria, healthy, lithe and mobile, rushed about on mysterious four-tired errands, but faithfully came back by evening to cluster around the magic happy screens in every home.

Before screen time, generally, they attended the Euphorians' schools, which were called "Pursuit of Happiness" schools, after an ancient theory. There they were taught principally to get along happily with other Euphorians. A certain amount of learning was required of them, so that they could advance to the level of the popular college, where the smiles were brighter, the cars faster and the happiness possibilities almost without limit.

When they grew older, the Euphorians gave up learning for earning. Earning was a sure path to happiness. The fast return had once performed its alchemies with magic swiftness. Better now was the slow, sure return, with fringe benefits. The comfort and security thus gained made all things possible for Euphorians but, eliminating the necessity of doing most things, made only a few things desirable. Yet the rewards of earning were varied enough to keep the Euphorians from appalling fates like single-mindedness or contemplation or eccentricity.

Most appalling of all were two major failings which the modern Euphorians atavistically called heresies—discontent and curiosity. In this country of smiles, where sophistication was the ability to sit unflinchingly through a play without a happy ending, the true Euphorian did his best to conceal any breach of contentment as quickly as it appeared. This ability grew to be prodigious. The Euphorians were able to apply it, with some success, to facts as well as opinions.

The task of killing curiosity was more difficult, since curiosity had long ago been regarded as a virtual Euphorian patent. But modern Euphorians, with so much done for them, preferred to let curiosity gradually doze off. They still said in their speeches that every Euphorian boy liked nothing better than to take a car apart or explore the sources of a forest river. But the cars grew too complicated for amateur repairmen and everyone knew that all the forest rivers were already carefully mapped.

Critics occasionally questioned whether the happy Euphorians were not destroying their own traditional austerity of mind, valuable in repairing furnaces, inventing nuclear processes, and separating the components of hazy diplomatic situations. The modern Euphorians replied that mental austerity was as uncomfortable, unnecessary and outmoded as a kitchen without push-buttons, or a speech without slogans. Then they would repeat the new national anthem which the children were taught in the happiness schools:

"We are the biggest; we are the best;  
We are ahead of all the rest."

It was at this point in their history, when the winter cruise season lured the mambo-dancing Euphorian vacationist and the schoolchildren in unprecedented numbers were learning how to drive cars and explore their own psyches, that Euphoria found out that it was not ahead.

The latest "ultimate" weapon of destruction had been devised

and perfected by the Scythians, a larger but traditionally dumber people whose national symbol, the scowl, had been warring with the Euphorian smile. It was impossible to claim that the Scythians had stolen the weapon from them—a source of curious reassurance in similar cases—for the Euphorians had possessed none themselves. Nor could they pass the discovery off as happenstance. The Scythian schools, not sophisticated enough to give courses in life adjustment, had long been developing a formidable system of study and practice in the newer scientific disciplines.

Their best qualities were strangely effective variants of the two which had long been banished from Euphoria—discontent and curiosity. All the students were chronically discontented. Life in unhappy Scythia made them so. They were also unfailingly curious, if only in the limited tactical pursuit of learning. Under the Scythian system, only the intensive application of curiosity—and hard work—could produce rewards for the student, sufficient to raise him above the common level of discontent.

The cold shock of the Scythian menace was soon translated by the Euphorians into calls for "action." Military emergency measures were taken. Then the Euphorians settled down to do a little thinking. They had obvious alternatives before them. The first to do business as usual, but a little faster—was made the more palatable as all the soothing resources of the smile country were brought into action. After all, as a well-known Euphorian metal-smith popularly argued, the Scythians were not "nine feet tall." Scholars cited statistics proving that the annual grain and entertainment shortage in Scythia would ultimately decimate the enemy population—if the Scythians had not indeed by that time become crypto-Euphorians through the influence of the happy screen. Prominent earners cited the invincibility of Euphorian "know-how."

The second alternative was far less happy. It not only implied devoting even larger sums of Euphorian happiness money into tangible efforts at security but, even more drastically, it called for a rediscovery of the traditional austerity of mind. For the Euphorians (of all people) had grown so happy, so modern, so integrated in a new age largely of their own creation that they barely realized that another and still newer age was being discovered—right out from under them.

To train their children for the newer age involved a drastic remodeling of the happiness schools and a reinstatement of the heresies, discontent and curiosity, as honored virtues. It demanded that the healthy, lithe, mobile children, whose ancestors had learned Latin and Euclid by the age of 12, and adjusted later, should relearn some older and exacting habits of mental discipline. For such habits alone could make possible future push-buttons, space ships and the sane thinking that might use them well. The second alternative demanded, further, that the teacher, the critic and the discoverer be permanently released from their imprisonment in Euphoria's moated ivy towers and allowed to sit down with the earners at dinner and given money enough to buy a new suit occasionally.

It was of minor concern that the more numerous Scythians would probably still produce more managers, craftsmen and technicians. It was for the Euphorians to produce better and brighter men—discoverers, who were more curious and more divinely discontented than any Scythian ever could be. They could do this only by rediscovering the peculiar individual commitment which the first Euphorians had seen written in their souls—to advance the common Weal by one's single work. In so doing, it would help them to remember that the country of smiles was dedicated to universal life and liberty, as well as to its peculiar pursuit of happiness.

It was quite a choice. There has been a lot of talk about it and the Euphorians are still trying to decide.





HAZY PLATFORM AT CHARING CROSS, WHERE THE FIRST TRAIN LEFT, IS SHOWN HALF HOUR BEFORE WRECK

# FOGGY, FATAL DAY IN LONDON

Train crash beneath a trestle leaves 90 dead, nearly 200 injured



STATION WARNING

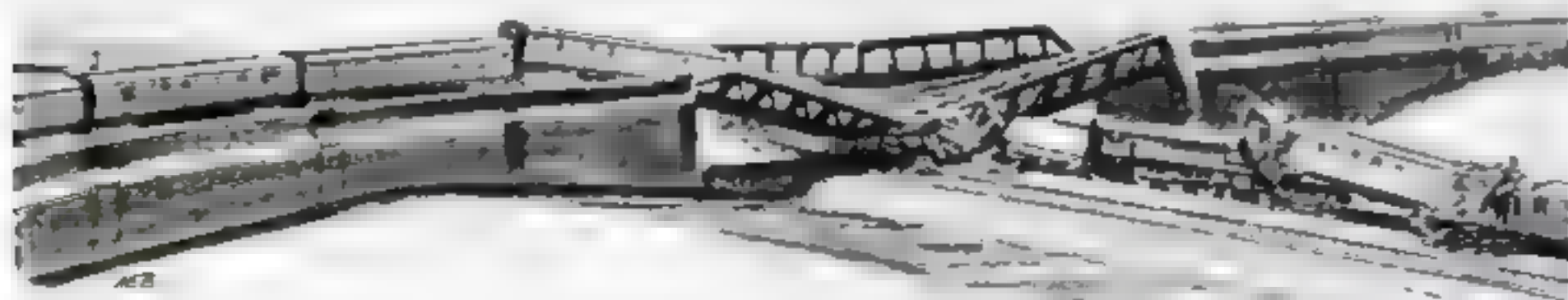
London was shrouded by an impenetrable early winter fog, the worst in two years. It was the evening rush hour and in the railroad stations the weary commuters and Christmas gift buyers were crowding aboard trains already late. From Charing Cross station, half an hour behind schedule, a diesel-electric, with a thousand passengers aboard, set out for the southeast suburbs. From nearby Cannon Street station a steam train, with another thousand riders, swung onto the same track. Outside the small station of St. John's the diesel paused at a stop signal. But behind it the steam train pushed along at better than 35 mph. With a flash of blue and a grinding, terrible crash the two trains collided. The cars buckled, tearing out the supports of an overhead trestle (*diagram,*

*below*). The trestle crumpled onto the wrecked cars just as a third train approached on the upper level. It stopped, derailed, just short of plunging on the wrecks below.

Townpeople stumbled through the blackness toward the wreckage and the screams. Rescuers set to work with acetylene torches, trying to free the passengers trapped in the tangled steel. Ambulances, often guided by policemen on foot, crept to and from the scene.

Through the night, the next day and into the next night the search went on. Finally the dreadful count was in: at least 90 dead, nearly 200 seriously injured. One survivor, badly cut, stumbled to a hospital and said, "Clean me up a bit. I don't want to worry the wife."

It was England's worst rail tragedy since 1952 when 112 died in a wreck. How had it happened? The engineer, in a state of shock, was not yet in condition to give an answer. Said his son, "He's a broken man. The doctor tells him to rest and sleep. But he can't sleep."



WRECK'S PATTERN is shown here. First train had stopped to right of "fly over" or trestle. Second

train, coming behind it from left, hit it. The trestle collapsed, derailling and imperiling third train (*left*).



IN THE GLARE OF SEARCHLIGHTS, THE COLLAPSED







**TRESTLE LIES ATOP THE WRECKAGE OF TRAIN CARS AS THE RESCUE WORK GOES ON. RESCUERS FACED CONSTANT DANGER THAT TRESTLE WOULD FALL FARTHER**



**← DAZED SURVIVORS** watch from embankment as others climb up from the wreckage on track below.



**TWISTED RAILS** atop trestle bend toward foggy scene of wreck on the morning after the accident.





A TOP TEAMSTER AT THE CONVENTION, SECRETARY-TREASURER JOHN ENGLISH, VEHEMENTLY TELLS TEAMSTER OPPONENTS THEY CAN "GO STRAIGHT TO HELL"

## BIG LABOR GIVES THE TEAMSTERS THE HEAVE-HO



PRESIDENT MEANY of A.F.L.-C.I.O. says Teamsters must rid selves of "dictatorship" of leaders.

All spring and summer the biggest show on the American congressional scene was the exposé of graft in the Teamsters union. Last week came the climax—the Teamsters were voted out of A.F.L.-C.I.O. by five to one. Most of the year's show had been staged in Washington where a committee headed by Senator John McClellan laid bare the strange, lucrative business philosophies of Teamster union officials. But the pay-off came in Atlantic City, at the A.F.L.-C.I.O. convention there.

Teamster secretary-treasurer, John English (above), railed at the accusing assemblage. He was speaking for the Teamster president-elect, Jimmy Hoffa, busy in New York fighting a wire-tap charge. English failed to impress A.F.L.-C.I.O. President George Meany (left) and Walter Reuther (right) and out the Teamsters went (below). But, though purged for the moment, the Teamsters were sure to retaliate with jurisdictional disputes and membership raids.



VICE PRESIDENT REUTHER of the A.F.L.-C.I.O. (right) talks with union counsel, Arthur Goldberg

LED BY ENGLISH (CENTER), TEAMSTER DELEGATES WHO HAD EXPECTED OUSTER ALL ALONG CALMLY FILE OUT OF THE CONVENTION HALL FOLLOWING EXPULSION

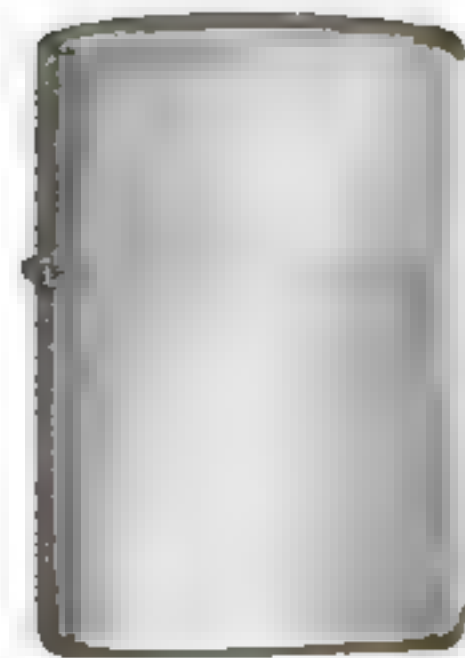




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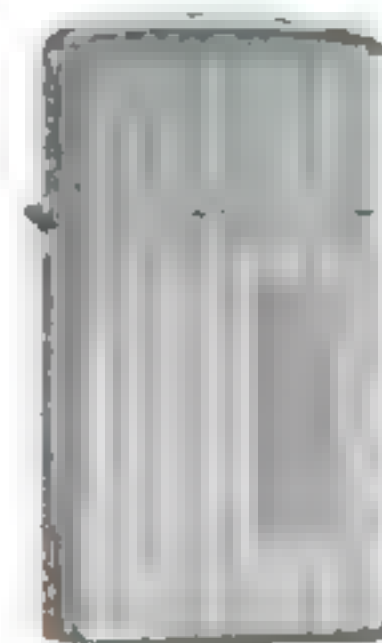
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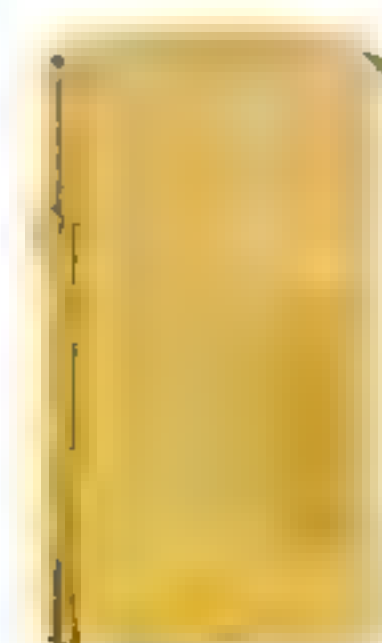
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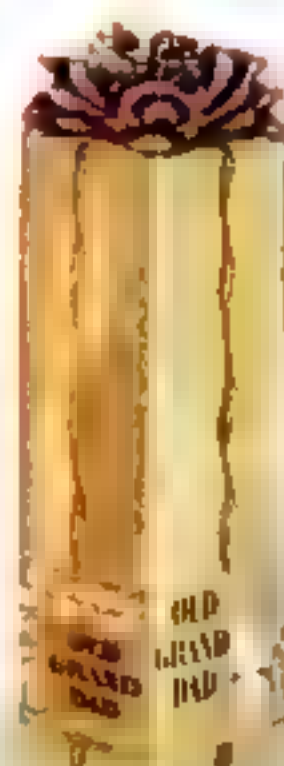
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all ready to pop in the oven**

**I**T'S A HOLIDAY IN ITSELF—this delightfully different, no-work dinner. Three of those wonderful Chun King American-Oriental foods all dished up for you on a shiny serving tray.

And look at all you get: Two Cantonese egg rolls made from delicate little fresh shrimp, meat, vegetables and fresh eggs wrapped in crispy-thin pastry. Famous Chun King Chicken Chop Suey with nice big pieces of tender chicken and almonds. Fluffy Oriental white rice. Sound good for tonight . . . and for those holiday busy-times?

This Cantonese Dinner is only one of many Chun King frozen delicacies—everything from chicken chow mein to egg rolls. Chun King is the name that's bringing new excitement to frozen food cabinets. Look for it when you shop.

## CHUN KING

*The Royalty of American-Oriental Foods®*



# MAN IN HURRY WAGING PEACE

The U.N.'s fire chief, Secretary-General Dag Hammarskjöld last week dashed to the Middle East and doused a dangerous smolder before it could flare into another Arab-Israeli conflagration. The flash point was Mount Scopus, a demilitarized enclave near Jerusalem in the Kingdom of Jordan. For nine years Israeli police have guarded a Jewish hospital and university on Mount Scopus, which has been supplied by twice-monthly convoys under U.N. escort. Recently Jordan refused passage of gasoline, alleging Israel was using it for pneumatic drills digging illegal fortifications.

Israel, protesting that the gasoline was used only to generate light and heat a bakery, talked of shooting its way through. Jordan, charging partiality in favor of Israel, then declared a boycott of the U.N.'s chief truce officer, U.S. Marine Colonel Byron V. Leary.

Flying to the scene, Hammarskjöld shuttled from Jordan's Foreign Minister Samir Rifai to Israel's Prime Minister Ben-Gurion. Four days of diplomacy won a little from each side: Jordan's promise to let prescribed amounts of gas pass, Israel's qualified promise to permit U.N. inspection of Mount Scopus, long a sore point to Jordan. Then, solving the issue of Colonel Leary by avoiding it—he promised to supply a personal representative for Mount Scopus—Hammarskjöld flew home, having both headed off violence and restored some U.N. prestige.



**IN JORDAN**, Hammarskjöld confers with spectacled Foreign Minister Rifai, and Jordanian aides,

including Defense Minister Akif al-Fayz and Chief of Staff Hafiz Majah (third and fourth from left).



**IN ISRAEL**, a smiling Hammarskjöld faces a jovial Ben-Gurion across the conference table, laden with

ash trays and bowls of fruit. Seated beside prime minister is the Israeli Chief of Staff Moshe Dayan.



**GOING TO SCOPUS**, after Hammarskjöld averted the crisis, the supply trucks proceed, escorted by white U.N. cars. They follow winding route leading to the

summit, marked here by the Hadassah hospital building (far right). The crossroad in the middle distance marks the beginning of Scopus demilitarized zone.





**PATERNAL KISS** greets daughter Kristin, a Cincinnati College sophomore, who meets Norstad on arrival at Washington. Right is General Twining.



**SCIENTIFIC DISCUSSION** with Presidential Adviser James K. K. takes up developments, particularly in the field of missiles, as related to NATO.



**GETTING FITTED** for uniforms. General Norstad takes time to visit his Air Force tailors in Cincinnati while there to address educational conference.



**FOUR-STAR AUTOGRAPHS** for teachers follow Cincinnati NATO speech. Says Norstad: "You get a real return from talking to people, face to face."



**NORSTAD, WHO LIKES TO DESCRIBE NATO AS A "SHIELD," RAISES A DETERRENT HAND IN ILLUSTRATION**



**ON A PROTOCOL TRIP** to Canada, last of the 15 member nations of NATO to be visited by Norstad, he converses with Prime Minister John Diefenbaker.



**AT SHAPE BALL**, a charity affair, guests (left to right) included French General Canaval, Mrs. Norstad, NATO Secretary-General Spaak, Mme. Canaval.

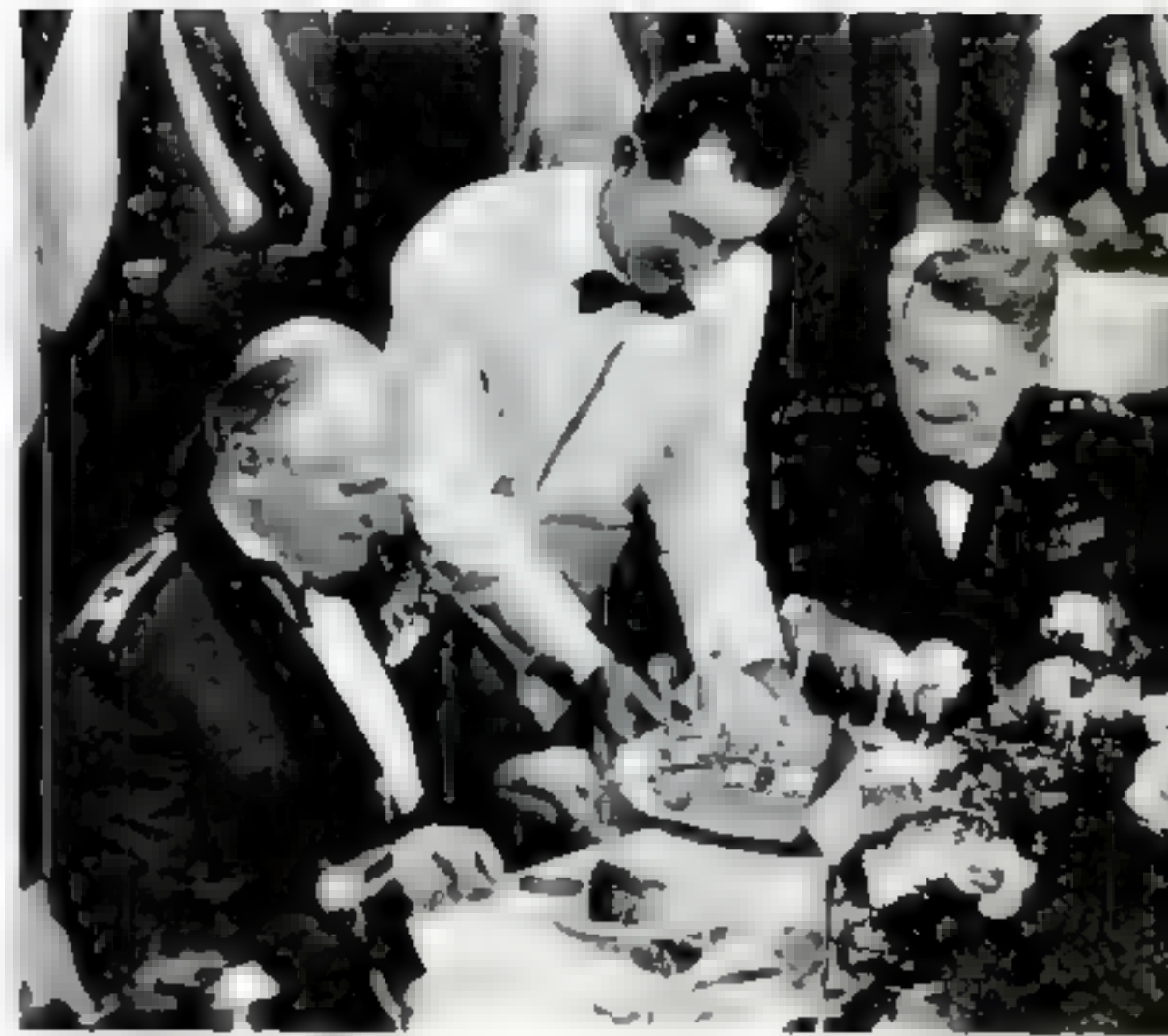




**LAST-MINUTE SHOESHINE** is self administered by General Norstad aboard plane. After take-off he usually exchanges uniform tunic for a sport jacket.



**COURTESY CALL** to Norstad's office at SHAPE is made by Presidential Press Secretary Jim Hagerty, in Europe to set up U.S. press plans for meeting.



**BIRTHDAY DINNER** for old NATO hand and old friend, Field Marshal Montgomery, was given day after Monty, 70, had announced he would retire.

# STRATEGIST PREPARES FOR A SUMMIT MEETING

General Lauris Norstad's groundwork provides framework for forthcoming crucial NATO conference

For weeks a precise, professorial military man from Minnesota has been commuting globally by plane, helping to set the stage for one of the most urgent and important events of the year—the summit meeting next week in Paris of the 15 powers of the North Atlantic Treaty Organization. General Lauris Norstad, who bears the title SACEUR (supreme allied commander in Europe), is guardian of NATO's 4,000-mile frontier in Europe and he was to be military host at the meeting. In preparing for it he had flown to America for a final preconference report to his chiefs in Washington, for a protocol visit in Canada, for a Pentagon conference with the President's top science adviser and for a speech in Cincinnati about NATO to kick off American Education Week. Then, back in Europe, he checked over last-minute details for the meeting and embarked on a stepped-up round of diplomatic affairs.

Lauris Norstad's main preparation for the meeting was done: a report on Europe's minimum military requirements which will be a principal basis for political discussion. It had been delivered to the NATO council

two days before Sputnik but remains still remarkably valid and far-seeing. Though the political deliberations will be conducted by civilians, Norstad himself will be on call at every conference to give data and advice. Norstad has some specific ideas to have presented to the meeting. One is a joint scientific committee of NATO nations which he believes could be charged with developing a missile suited to the organization's defense needs. Another is giving atomic training to all members of NATO. A third is an integrated air defense system for Western Europe backed by a warning system somewhat like that in operation in the U.S.

As last-minute conferences with his major European commanders and early-arriving superiors took place, the SACEUR last week spoke earnestly and hopefully: "This is an important opportunity. It may be compared only with the establishment of NATO and outbreak of the Korean war. It's all very well to make statements of principle, but now we must make a statement of the things we are doing—the tangible things. There are times when being just 'good' is no good. And this is one of them."



val, General Norstad, Lady Coleridge, wife of NATO executive secretary, and General Valluy, the commander of SHAPE ground forces in central Europe.



**RECEIVING VISITOR** at SHAPE, Norstad listens to French President René Coty speak. Left of Coty is French Defense Minister Chaban-Delmas. Behind

him is Colonel Struempell of Germany and Italy's Brig. General Pistotti. Behind Norstad is Brigadier Cross of Britain and Brig. General Erikan of Turkey.



**NO ADMITTANCE**

**EXCEPT WITH**

- 1. COSMIC TOP SECRET CLEARANCE**
- 2. NEED TO KNOW**
- 3. APPROVAL OF DUTY CHIEF**

**RING BELL**

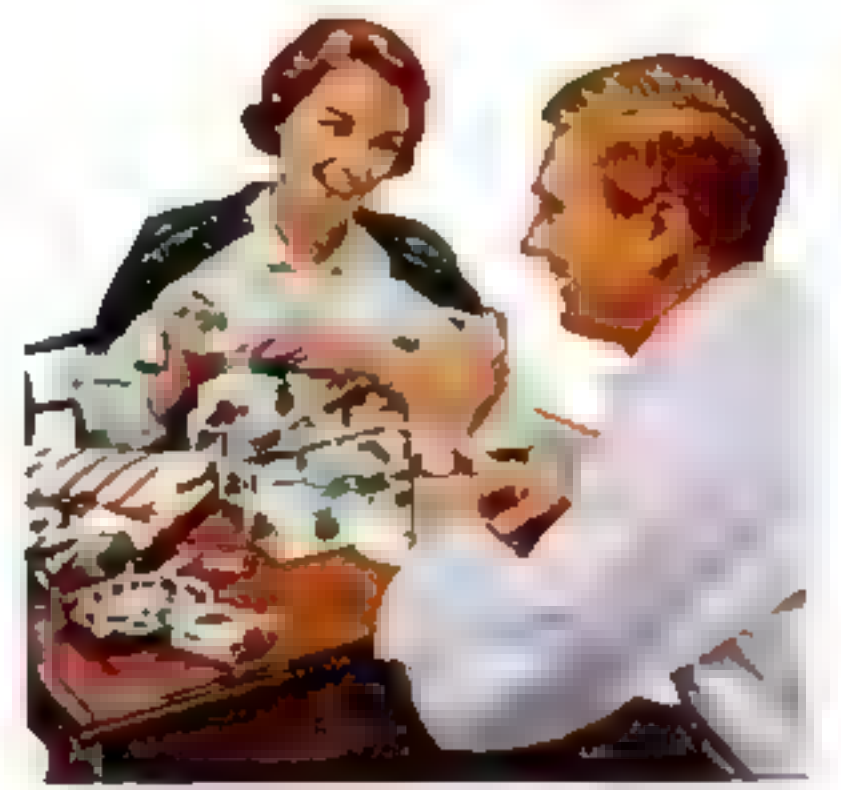


**FROM INSIDE "SHOC"** (Supreme Headquarters Operational Center) Norstad looks out guard window. SHOC is the nerve center of the alliance. From its soundproofed, map-covered, intricately burglarproofed precincts the Supreme

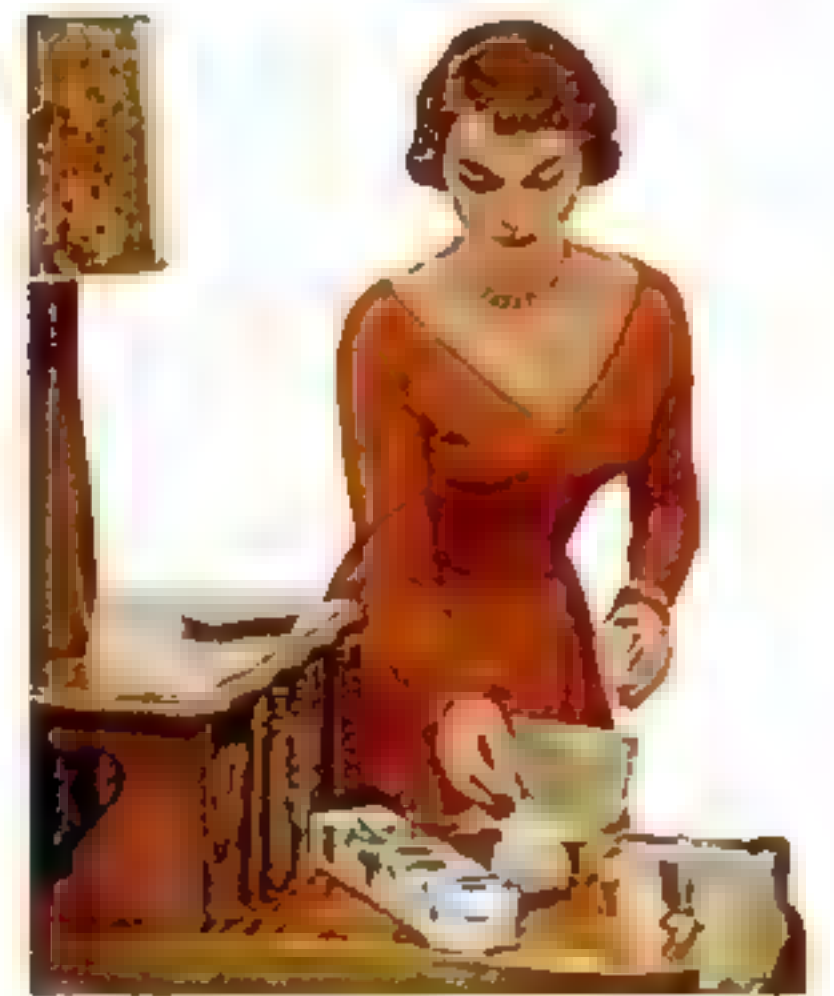
Allied Commander can control the forces of his command. "In SHOC," says Norstad, "we have posted constantly data of the greatest, greatest secrecy—planning information and current data. So we take very special precautions."



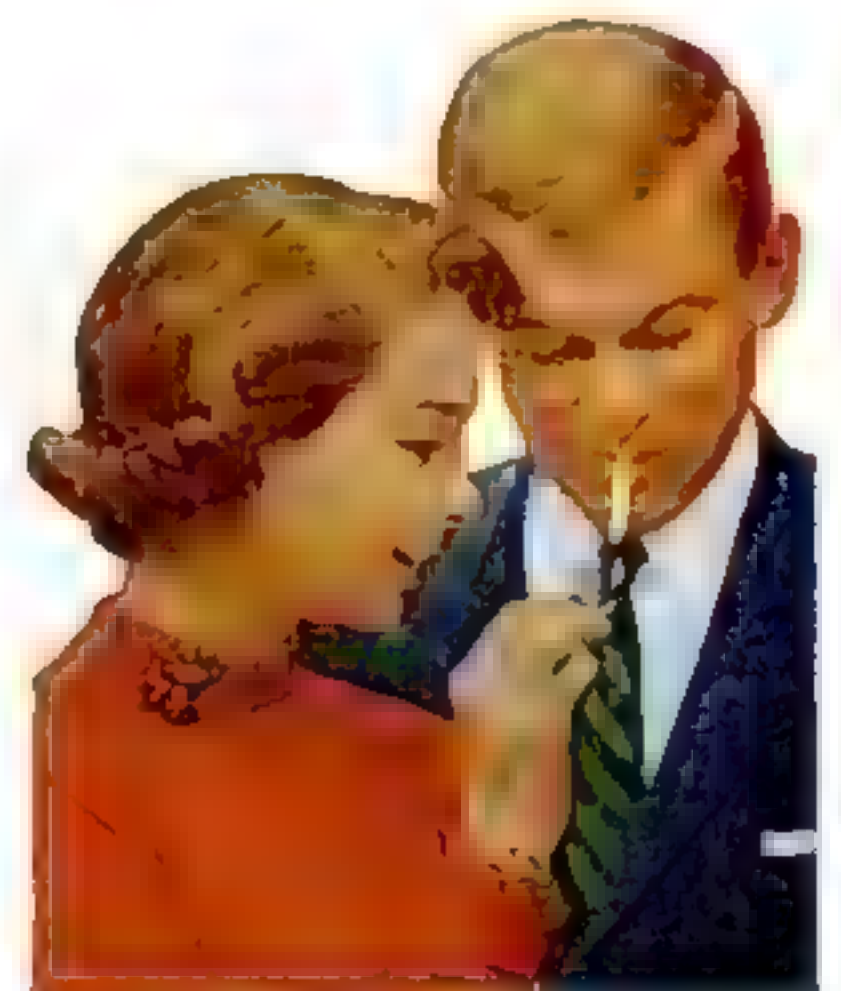
*This Christmas buy cartons of Luckies!*



*Give Luckies...*



*Serve Luckies...*



*Enjoy Luckies!*



# Nothing newer in the world!

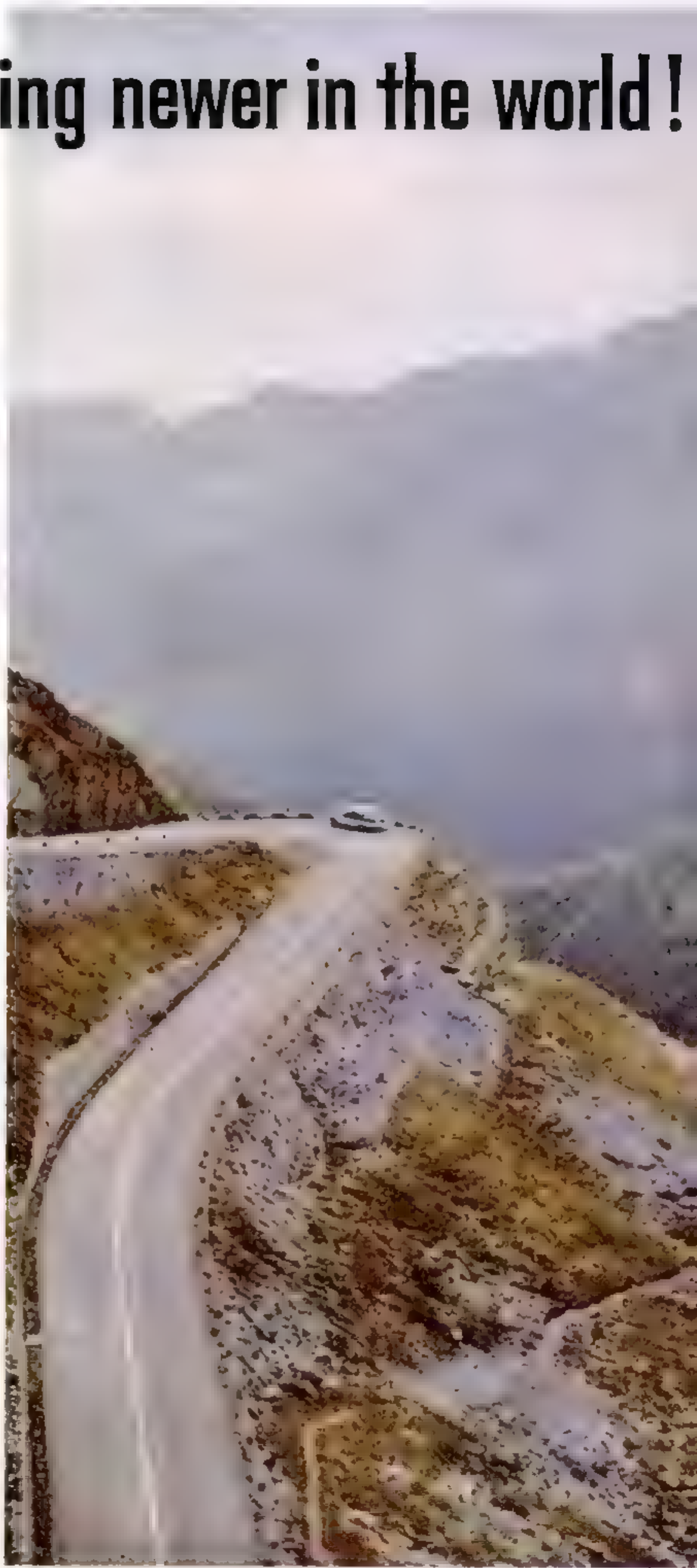


**A lively leader in London traffic.** Take-offs were crisp, praise was enthusiastic on the 58 Ford's triumphal world trip. Cruise-O-Matic's numbness cut traffic down to size. Even the most reserved Londoners agreed Cruise-O-Matic driving was a *smooth cup o' tea*!



**A honey to handle on Yugoslavia trails.** They never knew what to expect, but there was never a doubt in the world that the 58 Ford could handle it! Cruise-O-Matic's *extra* driving range really "tracked" on loose footing. New Magic-Circle Steering was easy as pointing. New Safety Twin headlights made night driving safer.

**Powerful climber in the Swiss Alps.** Ford's new Interceptor V-8 breathed easy even in the thin mountain air—the supreme test of Precision Fuel Induction, Ford's new carburetion, manifold and combustion system.





# CRUISE-O-MATIC DRIVE



**Style-approved in Paris.** Voilà! From the new Ford's Power-Flow hood to its sculptured rear deck, the fashion-conscious Parisians agreed there is nothing newer, nothing finer.

**Proved around the world...  
Ford's new automatic drive teamed  
with the great new Interceptor V-8  
gives up to 15% more gas savings**

In all the world there never was a trip like this. But, then there never was a car like the 58 Ford with Cruise-O-Matic Drive! Automatically you can go from crisp, clean starts to turnpike cruising speeds as smooth as Italian silk. Or, step out smartly from a standing start on ice, gravel or snow that would slow a Swiss mountain goat.

There's "built-in" overdrive economy, too. Teamed with Ford's new Interceptor V-8, Cruise-O-Matic utilizes a new low axle ratio . . . saves up to 15% more on fuel!

Want more proof of Cruise-O-Matic's versatility? Take a ride at your Ford Dealer's! There's nothing newer!



**PROVED AND APPROVED AROUND THE WORLD**

**58 FORD**

*The first car ever to use the whole world as a test track*

**And back home on the American road, there's nothing newer in the world!** Drive the new 58 Ford over the roughest back-country roads . . . or through the heaviest hometown traffic . . . and you'll find there's nothing newer in good looks, performance, ride, or handling ease. With Ford's new 4-Way Swept-Back Ball-Joint Front Suspension and new Even-Keel Rear Suspension you ride smoother and softer than ever before . . . you enjoy steady, sure-footed cornering for all-passenger comfort. Try it at your Ford Dealer's—check those *low, low* prices!



So smart to give...



so welcome to receive

FLEISCHMANN'S PREFERRED BLENDED WHISKEY • 90 PROOF • 65% GRAIN NEUTRAL SPIRITS • FLEISCHMANN'S GIN • 90 PROOF • DISTILLED FROM AMERICAN GRAIN • THE FLEISCHMANN DISTILLING CORPORATION, NEW YORK CITY





**CHOOSING LOOT,** Calhoun examines car cushion at filling station. Instead he took case of motor oil.



**CHARCOAL BRIQUETTES** for barbecue pit, taken by Joe, were a part of one station's \$3.93 padding.



**SEAT PAD** is selected at a service station where Joe also chose a flashlight and five gallons of antifreeze.



**AT STATION WHERE HE GOT 30 GALLONS OF GAS,** WAS BILLED FOR 100, JOE CALHOUN HOLDS A TRICYCLE

## FILLING UP WITH FUEL LOOT

Secret pictures expose truck drivers' mammoth bill-padding racket

The innocent-looking men shown here are engaged in one of the most widespread forms of highway robbery in the U.S.: padding gas bills, a practice that costs the trucking industry hundreds of millions every year. To engage in this fraud a truck driver pulls into a filling station and orders, say, 30 gallons of gas. He tells the attendant to make out the charge ticket for 50 gallons. The filling station pays the driver the cost of the extra 20 gallons in merchandise or cash. Later the station collects from the trucking company for all 50 gallons.

To eliminate this abuse, a pair of Texans have designed a fuel meter which registers the amount of gas actually pumped into the truck's gas tank. To impress prospective customers they sent a salesman, Joe Calhoun, on a four-day loot-collecting trip. With Calhoun, who used to run a filling station and admits he padded accounts to survive, went LIFE Photographer Tom McAvoy. Through small holes in the truck McAvoy photographed the loot as it rolled in—\$210.61 in merchandise and cash.



**HOODED PHOTOGRAPHER,** Tom McAvoy, wears black, shoots through hole in trailer to conceal self.



Striking new

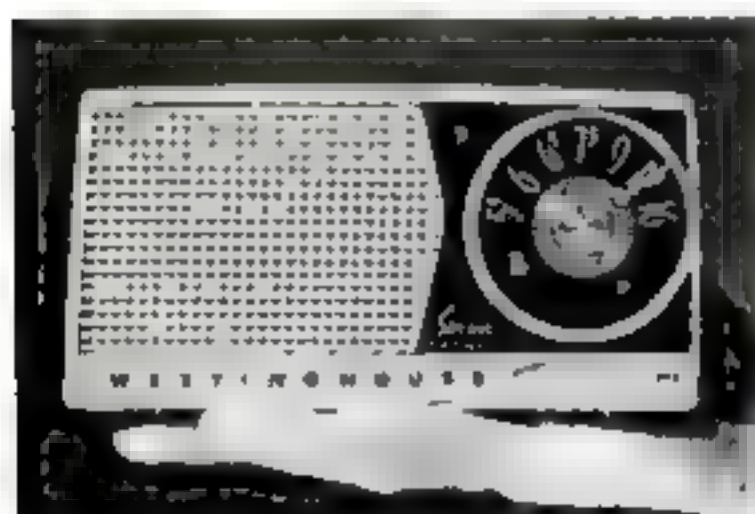
"Cordless"

table radio  
plays  
anywhere!

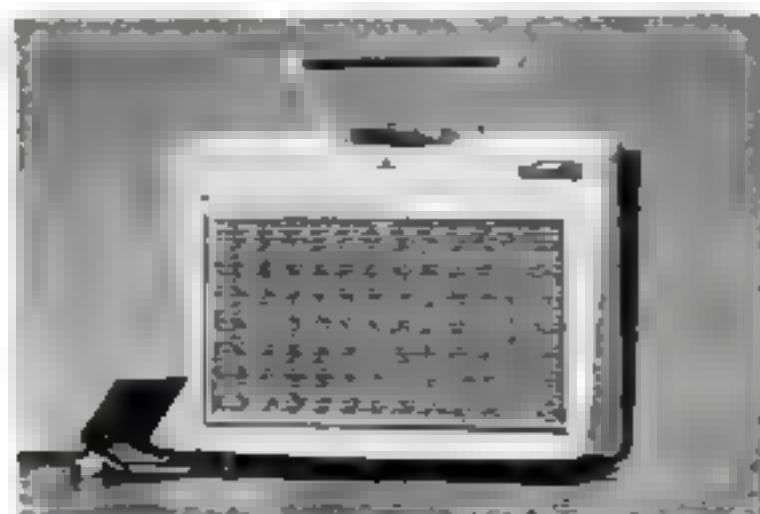


### WESTINGHOUSE ALL-TRANSISTOR RADIO DOUBLES AS A PORTABLE, TOO

At last—a table radio without a cord! Not only does this beauty play anywhere, but it looks smart anywhere too . . . on a cocktail table next to your cigarette box . . . on an executive's desk. And how it performs! Runs up to 1200 hours on one low-cost battery. Six transistors plus a diode pull in weakest signals. Its tilt-up speaker is a full 6" x 4"—larger than many big 21" *TI sets!* Transistors can't wear out or burn out. There's even a handle so you can use it as a portable! Unbreakable cabinet in Charcoal or Lemon & White.



**CARRY PLEASURE IN YOUR PURSE!** 7-transistor portable fits in pocket or purse, yet gives big-set reception. Transistors won't burn out. Runs on low-cost battery. 3 rich colors.



**LIFE OF THE PARTY**—wherever you go! This 3-way portable plays on AC, DC or long-life batteries. Battery clip lets you use flashlight batteries. Unbreakable case in two-tone colors.

90-DAY PARTS AND LABOR WARRANTY ON ALL WESTINGHOUSE RADIOS!

YOU CAN BE **SURE**...IF IT'S **Westinghouse**

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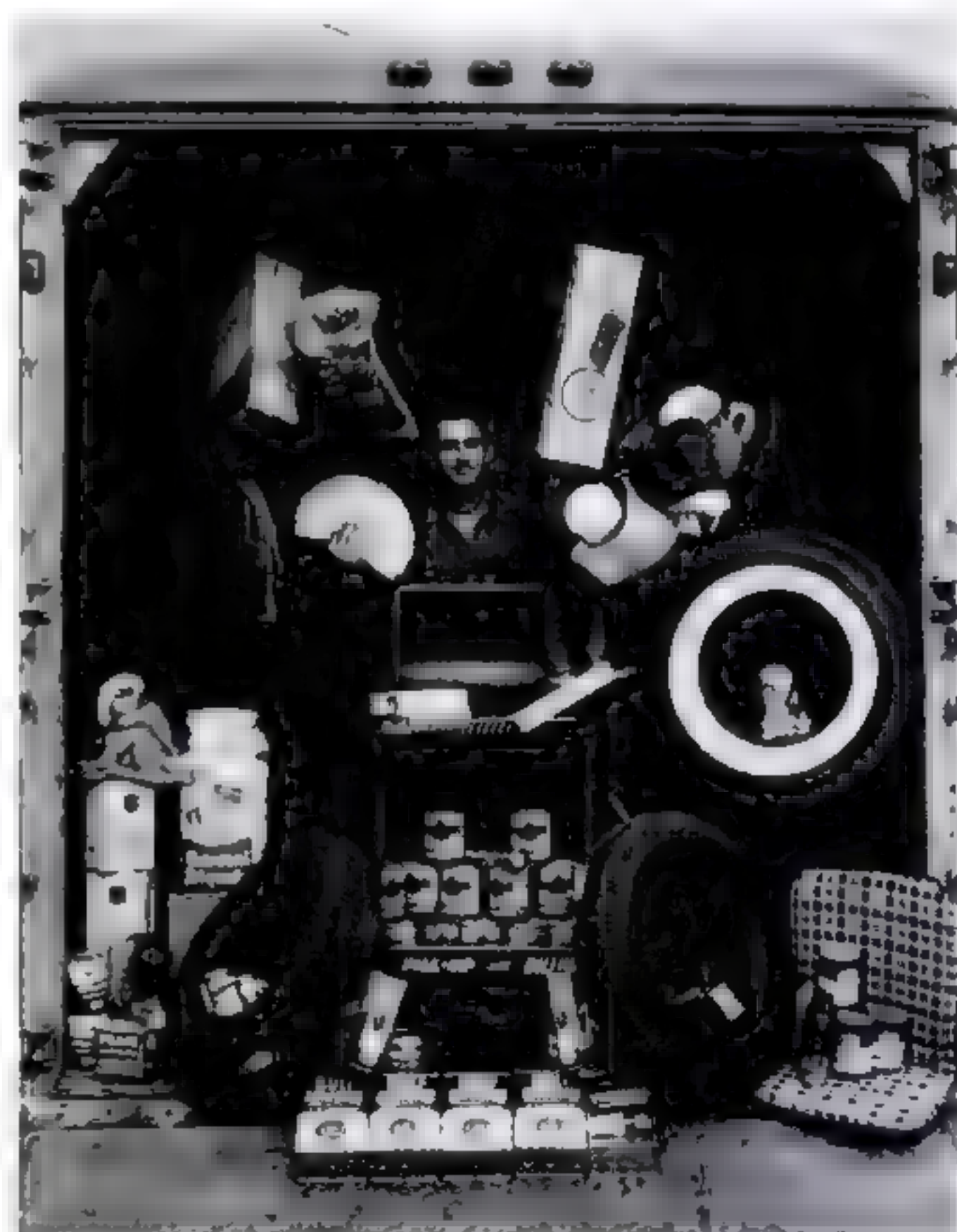
### Fuel Loot CONTINUED



**FUEL METER** to foil paddlers was designed by Ernest Porterfield (left) to be sold by Vernon Barge (right) and his Sentinel Products Corp. for about \$ 25.

### A METER AND A TRUCK'S TAKE

Joe Calhoun covered 886 miles on his padding expedition. To compress several months' experience into four days he carried thirty 55-gallon gasoline drums in the truck trailer, pumped the gas from truck tanks to the drums at regular intervals. Altogether he made 24 stops. His bill was padded at every stop but one, where a company supervisor happened to be present. He actually bought 918 gallons of gas, but the bills showed 1,624 gallons. The loot (below) included everything from a charcoal grill to a panda. But what made Calhoun's feat really impressive was the fact that he did it "cold." He was a stranger at all of the filling stations. If he had been a regular customer he probably would not even have had to suggest the deception. All that he would have had to do would have been to say how much he wanted.



**CALHOUN'S LOOT** includes \$47 in cash, panda, 8 cans antifreeze, 3 tires, seat covers, seat pad, auto rug, braquette and grill, oil, wagon and 4 statues.



# WHY NOT GIVE AS GOOD AS YOU SERVE...

## EARLY TIMES



And it's so easy to give this year, beautifully wrapped and ready in the handsome Holiday package shown above. A case pleases a dozen good friends. Because to give Early Times means you know good whisky. Of all the fine whiskies made in Kentucky, Kentuckians themselves overwhelmingly choose Early Times over all other straight whiskies. Good, so good it's remarkable.

KENTUCKY STRAIGHT BOURBON WHISKY • 86 PROOF • EARLY TIMES DISTILLERY COMPANY • LOUISVILLE 1, KY.







Stately  
Sovereigns  
of the Spirit

Enthroned in the church of St. Denis near Paris (*left*), a stately Madonna presents her son to the world. Carved from wood in the 12th Century, the Virgin has a jeweled crown and the Child (*detail at right*) holds the orb, symbol of sovereignty. Though they display emblems of earthly rulers, Photographer Sochurek suggests their spiritual domain by catching the aureole of stained glass behind them.



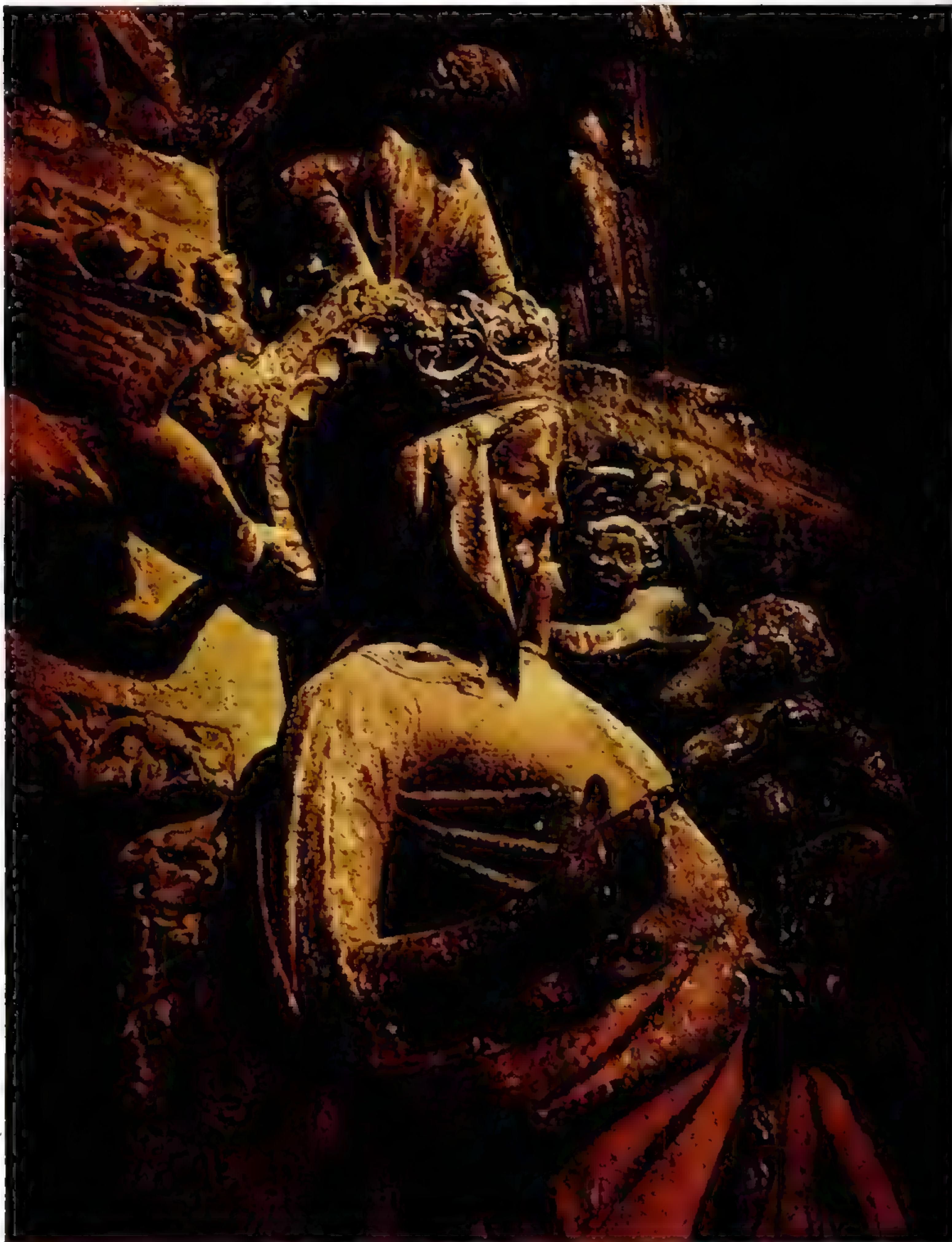
# The Madonna and Child

Three photographers capture the timeless beauty  
of sculptured masterpieces

Throughout the Christian era the image of the Virgin with the Infant Jesus has recurred with timeless freshness in the great art of the Western world. More than any other theme of Christian tradition, their tender relationship has been an inspiration to artists who have seen in it a supreme embodiment of human and divine love. Among the most moving and majestic portrayals of the Madonna and Child are the sculptured masterworks shown on these pages. Ranging from the 10th to the 20th Century, they have inspired sensitive photographers of today to capture in color the subtle mystery of their moods and the eternal wonder of their beauty.

Photographed for LIFE by  
MARK KAUFFMAN, GJON MILI and HOWARD SOCHUREK







## Cool Beauty in the Shadows

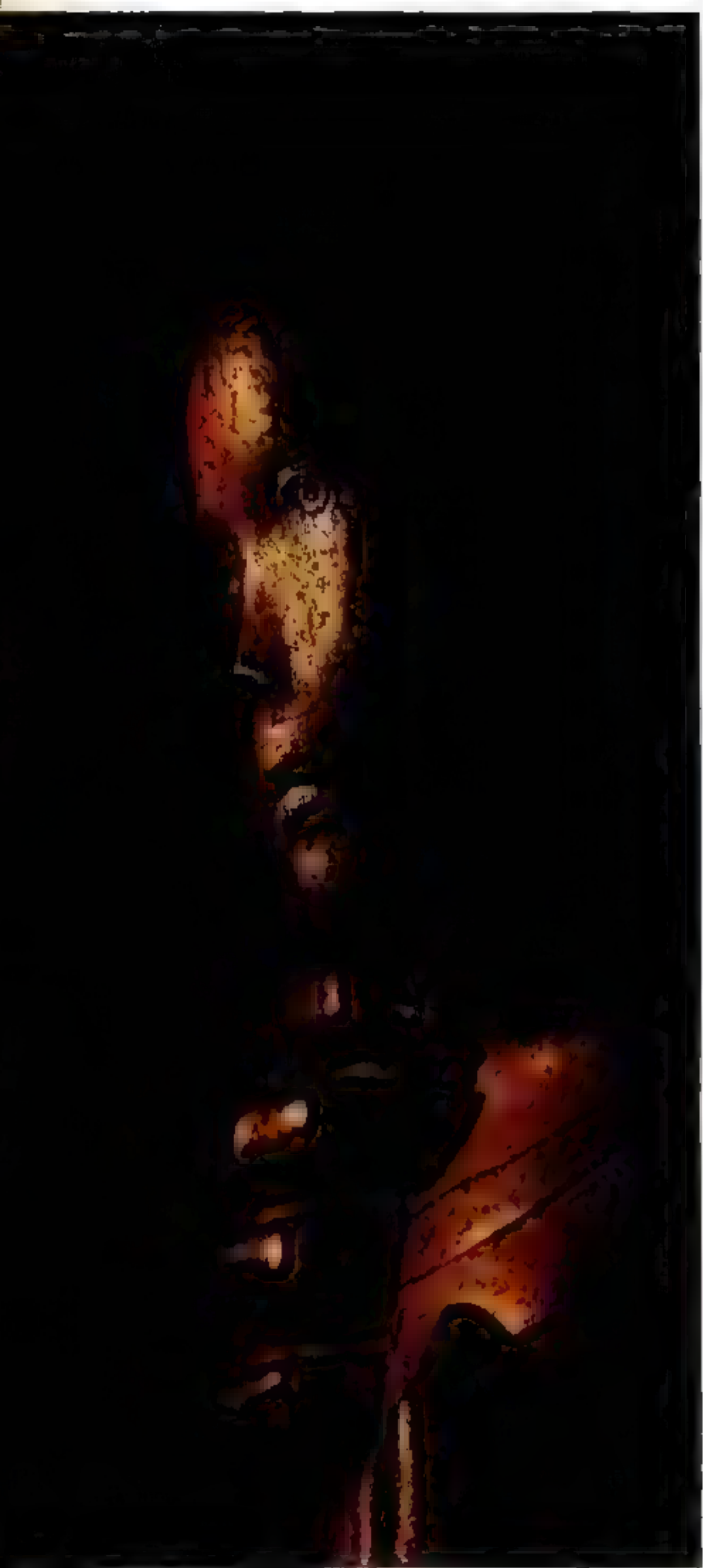
**I**llumined by a candle in the church of Notre Dame in Bruges (*right*), Michelangelo's Madonna looks down with cool beauty as her son squirms at her knees. The marble sculpture was carved by the great Italian around 1501 when he was 26. Today the sculpture is installed in a niche above an altar of the church. In Mili's photograph, the Virgin and her child seem lost in brooding thought as the shadows of the niche close about them.

## Golden Warmth of a Smiling Mother

**A**mid a circle of angels (*left*), the Golden Virgin of Amiens smiles upon the tiny babe she cradles in her arm. Ever since the 13th Century she has been poised above a portal of the French cathedral. The brilliant gold leaf which once covered her limestone robes and gave her her name has long since gone—and time has flecked the stone. But here, bathed in Sochurek's lights, the Virgin basks again in a golden warmth.







**A Mother's Protective Hand  
in an English Church**

**T**he protective hand of a mother resting on the shoulder of her child, highlighted above, conveys the special spirit of the *Madonna and Child* by Henry Moore. The British artist carved the stone sculpture in 1944 for the Church of St. Matthew in Northampton. In its simple forms the work possesses a monumental dignity appropriate to the setting (*right*), in which Kauffman photographed it. But the mother's gesture and the child's expression of innocent trust bring to it a quality that is touchingly human.







### A Young Girl's Wistful Gaze in a French Cloister

The robes and crown of a medieval queen adorn Our Lady of Grace in Toulouse. Framed by a shadowy cloister in the Augustinians' Museum (*right*), she holds her round-faced baby amid the folds of her garments. The stone Madonna was carved 500 years ago and enriched with paint. Now, her colors faded or vanished, she bears a look that belies her regal trappings. Her face, seen in profile in Kauffman's photograph (*above*), reveals the wistful expression of a girl almost too young for the role she is to play.

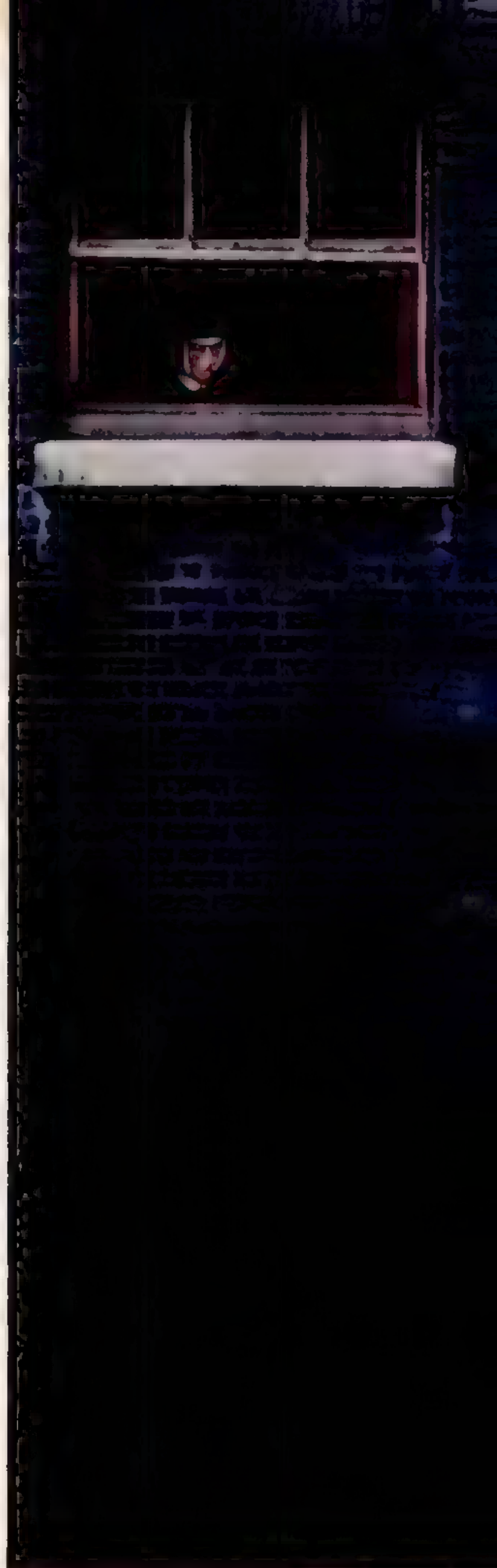






### Stark Figures and Shifting Patterns above a Square in London

A stark image looks down on London from an archway in Cavendish Square. Commissioned by the nuns of the Convent of the Holy Child Jesus, it was made four years ago by Sir Jacob Epstein, who had the 13½-foot sculpture cast in the lead that was salvaged from the roofs of the war-bombed convent buildings. The rigid formality of Epstein's Madonna and Child is reminiscent of ancient Byzantine art but the lifelike rendering of the heads, hands and feet brings the figures boldly up to date. In the shifting light of London, as Kauffman photographed them, the Madonna and Child change moods and create intricate patterns of shadows upon the wall. Through their postures they convey a double expression of love—the maternal love of the Virgin directed toward her son, the divine love of Christ encompassing the world















### A Thousand-year-old German Image Agleam in a Glory of Gold

A dazzling glory of gold envelops the Madonna and Child of Essen Cathedral in Germany. The gleaming statue, 30 inches high, was made around the end of the 10th Century when the German goldsmiths' art was at an unparalleled height. Over a core of wood, the artist hammered and shaped the gold into meticulous forms like the halo of the Child (*far left*) and the ornate apple which his mother holds as a symbol of redemption from Eve's sin. The Madonna (*above*), whose enameled eyes stare with wonder at the apple, is herself adorned with a brooch which once held a relic, and her robes (*center*) fall like a cascade from her shoulders. All these details, singled out by Miki, merge in a lustrous vision (*following pages*) as the Madonna and Child sit in the hushed sanctity of the cathedral cloister.













# For the most glorious days of your life!

We would like to make a promise to the man who will own and drive the magnificent motor car pictured on these pages.

Stated in the briefest possible terms, it is this: that he will find it the most deeply satisfying and the most richly rewarding motor car he has ever owned.

We feel we can make this promise in the fullest confidence—even to those who have enjoyed possession of the Cadillacs of the past. For never before has a Cadillac offered so many wonderful virtues—in such great abundance—as does Cadillac for 1958!

To make its owner proud and happy, for instance, there is its surpassing new beauty, its greater sweep and majesty of styling, and its wonderful new elegance and refinement of line.

To attend his comfort, there is the added interior luxury and convenience of its Fleetwood coachcrafting, its still

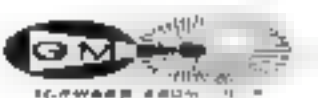
greater quietness of operation, and its improved qualities of ride... especially when he selects Cadillac's air suspension, now available as an option at extra cost on every model.

To enhance his driving pleasure, there is its great new Cadillac engine, its smoother, more responsive Hydra-Matic Drive, its improved Cadillac Power Steering, and its even finer balance in motion.

In summary, this is motordom's masterpiece in all the things that make a motor car a joy to own and to utilize—and in everything that makes a Cadillac... a Cadillac!

We cordially invite you to see and to drive this new Standard of the World soon at your Cadillac dealer's. It's waiting for you now—waiting to bring you the most glorious days of your motoring life!

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# Cadillac



"THE HOLIDAY FESTIVITIES"

Runs by Robert, Detroit







# Noble nibbling!

In the reign of England's King George IV, his Royal Chef artfully blended a zesty new sauce. When that gourmet monarch christened it "A.I.," this herb- and-spice-rich sauce became a palace favorite. Today it's a party favorite. Use it in your dips and spreads and canapés, see what noble flavor it adds!

**A.I. Cheese Puffettes.** Beat 1 egg till it is thick and lemon colored. Blend with one 8-oz. pkg. pimiento cream cheese. Add  $\frac{1}{4}$  cup mayonnaise, 1 tsp. grated onion, 1 tsp. salt, 2 tbsps. tangy A.I. Sauce. Beat with rotary beater till smooth. Spread on crackers and broil until brown and puffy. Makes about  $1\frac{1}{2}$  cups.



**Shrimp Scoop.** Combine  $\frac{1}{2}$  lb. chopped cooked shrimp (fresh, frozen or canned) with 1 cup each cottage cheese and sour cream, 2 tbsps. each A.I. Sauce, lemon juice, chili sauce and 1 tsp. salt. Blend well. Makes about 3 cups, tastes so good you'll wish for more!

**Clam-Cheese Dip.** Combine one 7-oz. can minced clams (drain off liquid and save) with one 8-oz. pkg. cream cheese,  $\frac{1}{2}$  cup clam liquid, 2 tbsps. lemon juice, 1 tsp. A.I. Sauce,  $\frac{1}{2}$  tsp. each garlic salt and horseradish. Blend well. Makes about  $2\frac{1}{2}$  cups.

If you can't take your family out to dinner — soon? All leading restaurants serve A.I. Sauce. Enjoy it on your favorite restaurant dishes.





**MISUNDERSTANDING** takes place when Giora (Anna Magnani), in distress, wishes to leave the house. Husband Gino (Anthony Quinn) stops her.

## Fiery Cast, Gentle Tale

### SULTRY MAGNANI STARS AS AN IMMIGRANT WIFE

Anna Magnani, dark lady of a hundred sultry scenes, descends from the soul-searching tradition of the great Italian Actress Eleonora Duse. Anthony Quinn and Anthony Franciosa are schooled in the moody and depth-probing Stanislavsky method of acting. These three heavy-breathing, highly charged actors have now been brought together in one movie. The result, paradoxically, is a sentimental, lovely little film called *It All Is the Wind* done by Hal Wallis for Paramount. It will probably set as many eyes to burning and throats to catching as did Wallis' *Rose Tattoo* which won Magnani an Oscar in 1955.

Set in the wild Nevada sheep ranching country, it tells of a good-natured but blockheaded Italian farmer who imports a wife from Italy and then neglects her. On this oversexed lady a young Basque herder casts sidelong eyes. For those who like their acting strong and their stories sweet, the movie is highly satisfying.

**QUARREL** follows when Gino explains to Giora who feels she has no place in Louise that he is a rich man and doesn't want his wife to be a servant.





# Faster, easier RELIEF FOR ALL THESE COLD MISERIES

with pleasant new liquid!

- Open stuffed-up nose!
- Soothe raw, sore throat!
- Loosen phlegm, ease cough!
- Relieve headache, body pains!

TAKES THE PLACE OF

NOSE

DROPS

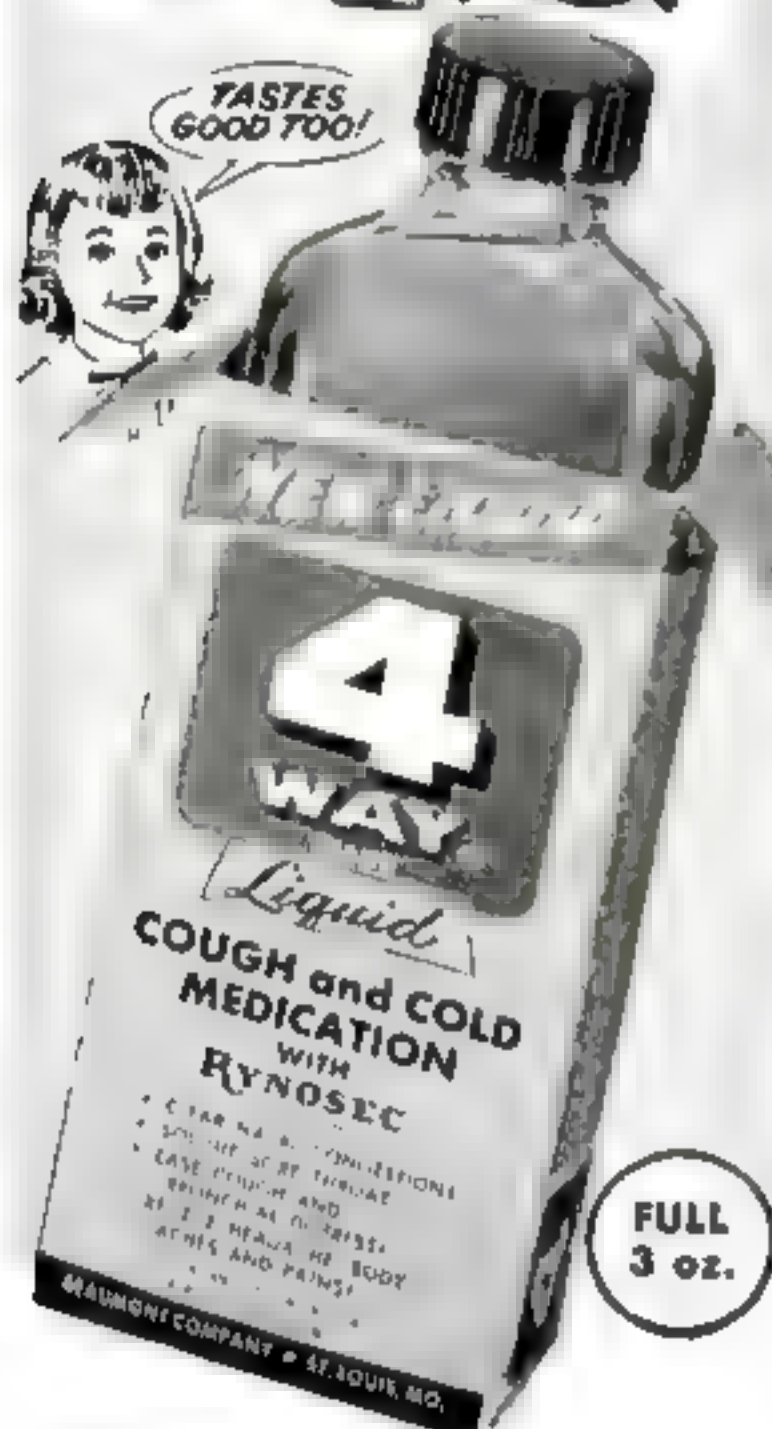
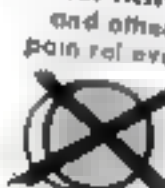
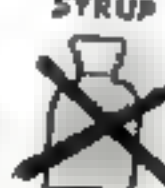
COUGH

SYRUP

ASPIRIN

and other

pain relievers



FULL  
3 oz.

No one-purpose remedy gives  
such thorough relief as

**NEW 4 WAY® LIQUID**  
Cough and Cold Medication!

It's an easy-to-take liquid that's faster-acting! It's a combination of modern medicines that can relieve cold distress more thoroughly than any single-purpose remedy...better than cough syrups, nose drops, aspirin! It's new 4 WAY Liquid Cough and Cold Medication—with exclusive Rynosec®!

Almost at once, 4 WAY Liquid makes you feel better *all over*! Yes...being liquid, it's instantly ready to speed relief into your blood-stream, throughout your body! And it contains Rynosec® too. That's why new 4 WAY Liquid brings more relief, faster relief of cold miseries! At all drug counters now! \*Trademark

## WHAT ABOUT ASIAN FLU?

The symptoms of Asian Flu are often very similar to those of the common cold symptoms which 4 WAY Liquid is specifically formulated to combat. However, the major danger signal is fever—running as high as 102 to 104 degrees. When such symptoms occur with fever... particularly among children under 3 or adults over 65...consult your physician

## FIERY CAST CONTINUED



HELPING WITH LAMBS, Gioia is happy when she works. Here she holds new-born rejected by its mother while herdsmen look for ewe to be wet nurse.



SAVED BY YOUNG HERDER, Gioia is pushed from a wild horse's hoofs by Bene (Anthony Franciosa) who first rescues her, then makes love to her.

## Wonderful ways to give Calvert



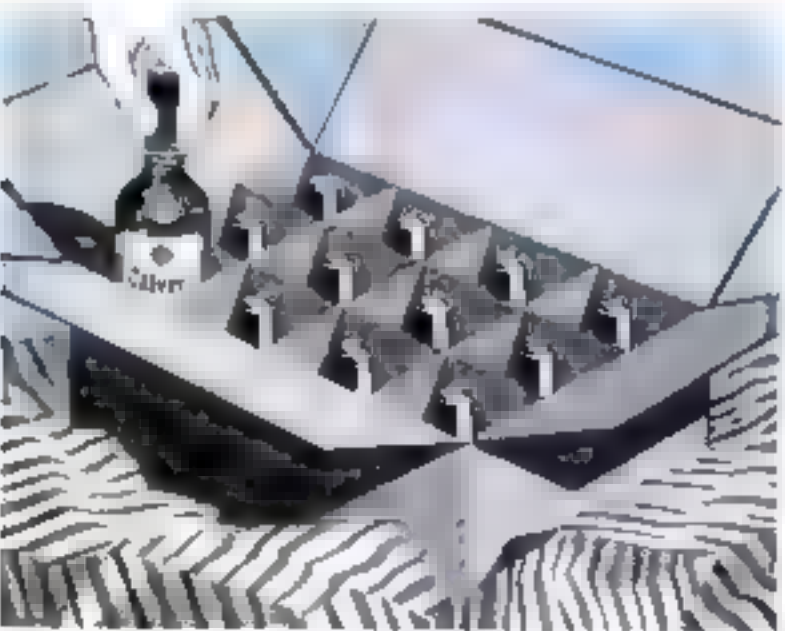
Calvert's Silverglass Cocktail Shaker is many gifts in one! A full quart of superb Calvert Reserve... a luxurious decanter... a perfect cocktail shaker!



Nothing could be handsomer, nothing easier to give than Calvert in the Lustre-wrap package. Slip off sleeve, it's ready to give... in red or gold.



The Calvert Presentation Pint, in a red and gold carton, is just the gift for many of your acquaintances—especially if your gift list is a long one.



For someone extra-special, give the Calvert Christmas Case, containing twelve bottles of Calvert. Gift-wrapped at your favorite liquor store.

Nothing finer in American taste

CALVERT DIST. CO., N.Y.C. • 86 PROOF • 65% GRAIN NEUTRAL SPIRITS • AMERICAN BLENDED WHISKEY






CALVERT IN THE LUSTRE-WRAP GIFT PACKAGE  
Available in luxurious red or gold fabric. Ready to give.

CALVERT IN THE SILVERGLASS COCKTAIL SHAKER  
Contains a full quart. Supply limited. No extra cost.

*Most magnificent choice of the holiday season!*  
**CLEAR HEADS AGREE:**  
Calvert gives you more to give—more proudly






*Why buy another  
tube of tooth paste?*

**Ipana<sup>®</sup>  
is here !**

*Try the new squeeze bottle dentifrice.*



*Outlasts  
3 giant-size  
tubes!*

SAVE UP TO 40¢

Ipana Plus is a real  
bargain at \$1.19 because it  
gives more brushings  
than three 53¢ tubes!

ANOTHER FINE PRODUCT OF BRISTOL MYERS

ACTUAL SIZE: Fits easily on any bathroom shelf!



# Plus



*Flows on easily...*

*...no waste...no mess!*

New flowing formula leaves teeth feeling cleaner,  
whole mouth fresher than tooth paste!\*

Just *looking* at it, you know you're going to like it—this wonderful new way to brush your teeth. Once you *use* new Ipana Plus...well, you'll just never go back to your tooth paste tube again!

New Ipana Plus is so much *easier* to use. A gentle squeeze, and just the right amount flows onto your brush. Stop squeezing, it stops flowing. No waste or mess ever. Unbreakable plastic bottle keeps its neat, new look from the very first squeeze to the last.

New flowing formula is ready to go to work quicker than any tooth paste. It penetrates tiny, hidden crevices between teeth. \*Most people who tested it—even against their favorite paste—said Ipana Plus left their teeth feeling cleaner, their whole mouth more refreshed. (With kids who tried it, it was love at first taste!)

Start brushing with new Ipana Plus today. Until you do, you'll just never know how clean your teeth and mouth can feel!



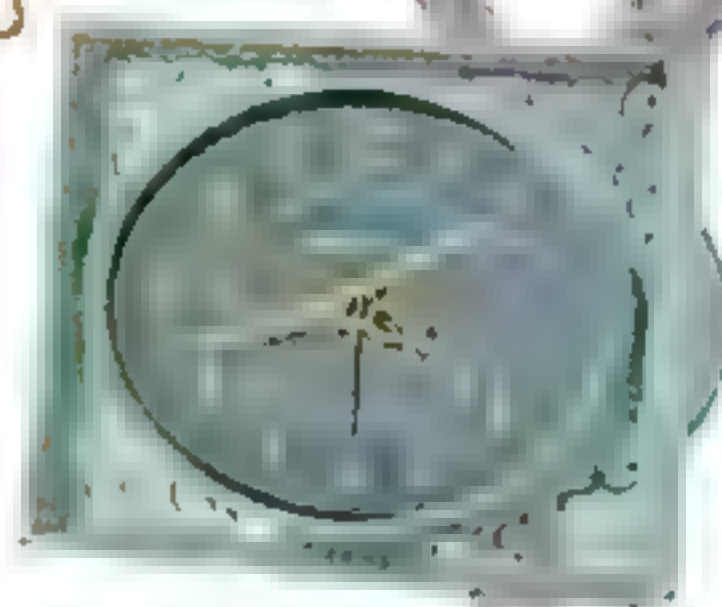
Gleaming brass finished  
**FRILL** wall clock. Perfect  
decorative touch. \$8.95.



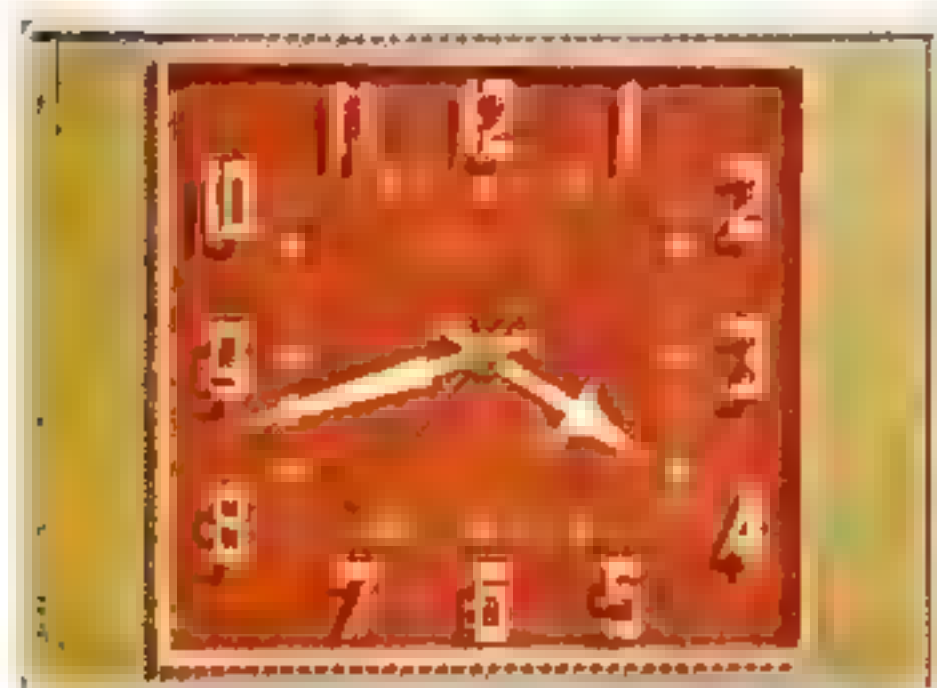
Popular **TRAVELARM**. Closes like  
a clam. Luminous. Now only \$7.95.



Western-style **KENYON**. Rich  
silvered luminous dial, \$9.95.



Romantic **LACE**. Filigreed insert.  
White, plain dial, \$4.98.  
Pink or blue, luminous, \$5.98.



"Two-way" **GLENDALE**—a  
standing or wall clock! Red,  
charcoal or turquoise dial, \$6.98.

FOR JOYFUL SURPRISES  
AT SENSIBLE PRICES

## Westclox has the gift!

Why not breeze through the rest of your shopping  
and start wrapping? Stores all over town have these  
handsome Westclox. You couldn't make a better  
choice. They're reasonably priced, famous for  
dependability, *always* appreciated. Gifts that say  
"Merry Christmas" a very special way...not just  
once, but every minute of every hour of every day.

Small **SCEPTER**.  
Unbreakable mainspring.  
Sweep second hand.  
Shock resistant,  
anti-magnetic, \$7.95.  
With metal band, \$8.95.



**WRIST BEN WATERPROOF\***  
Dustproof,\* shock resistant,  
anti-magnetic. Luminous, \$10.95.  
Strap model, \$9.95.



New **BIG BEN**—keywound or  
electric. Plain dial, \$6.95.  
Luminous, \$7.95.

**WESTCLOX®**  
...dependable as the day is long



Luxurious **LELAND**. Clear Lucite  
panes, light-catching numerals.  
Luminous; a arm, \$12.95.

Prices do not include tax.

\*Stays waterproof and dustproof provided original seal is replaced if opened for service.

WESTCLOX, LASALLE PERU, ILLINOIS, U.S.A. PRODUCTS OF **GT** CORPORATION  
General Time





ADMIRING THE ANGEL that symbolizes the hopes of his father, a stonecutter (Hugh Griffith), young Eugene Gant (Anthony Perkins) dreams of own hopes.

## Fine Play from Great Novel

**'LOOK HOMEWARD, ANGEL' BRINGS WOLFE'S FAMILY TO BROADWAY**

Out of Thomas Wolfe's great first novel, *Look Homeward, Angel*, a film writer named Ketti Frings has fashioned a memorable and moving Broadway play. Like the book, the play centers on the family of Eugene Gant and is virtually a chronicle of Wolfe's own boyhood in Asheville, N.C.

Wolfe himself, who is called Eugene, is portrayed as a gangling, restless youth of 17. Around him swarm his plucky but penny-pinching mother who runs the Dixieland Bearding House;

his roistering father; his beloved brother Ben and steathearted sister Helen; and the pretty boarder, Laura, who first opens his eyes to love. Stepping out of the family album, they are all as Wolfe saw them—full of high hope and despair, cruelty and compassion, and streaked with grandeur. In one of his letters Wolfe wrote that the theater must have "some lifting quality besides bare, sordid realism." *Look Homeward, Angel* on the stage has the "lifting quality" that Thomas Wolfe admired.

CONTINUED



'ANGEL' CONTINUED



SHY COURTSHIP begins as Eugene meets Laura (braves fly an h), who tells she is too old for him.



WILD UPRAAR shakes the boardinghouse when father comes home roaring drunk. He is propped up

by Eugene while relatives and bourgeois look on and mother (the Van Fleet) says him out.



TRAGEDY DARKENS THE BOARDINGHOUSE AS BEN LIES DEAD OF PNEUMONIA, MOURNED BY HIS MOTHER AND HIS FAVORITE BOARDER, "FATTY," DOCTOR





BROTHERLY LOVE lies deep in Eugene and Ben (Arthur Hill), who collapses with coughing fit. Ben urges Eugene to escape mother and Asheville.



IN DOORWAY BREAKS NEWS TO FAMILY. LAURA SITS ALONE AT RIGHT

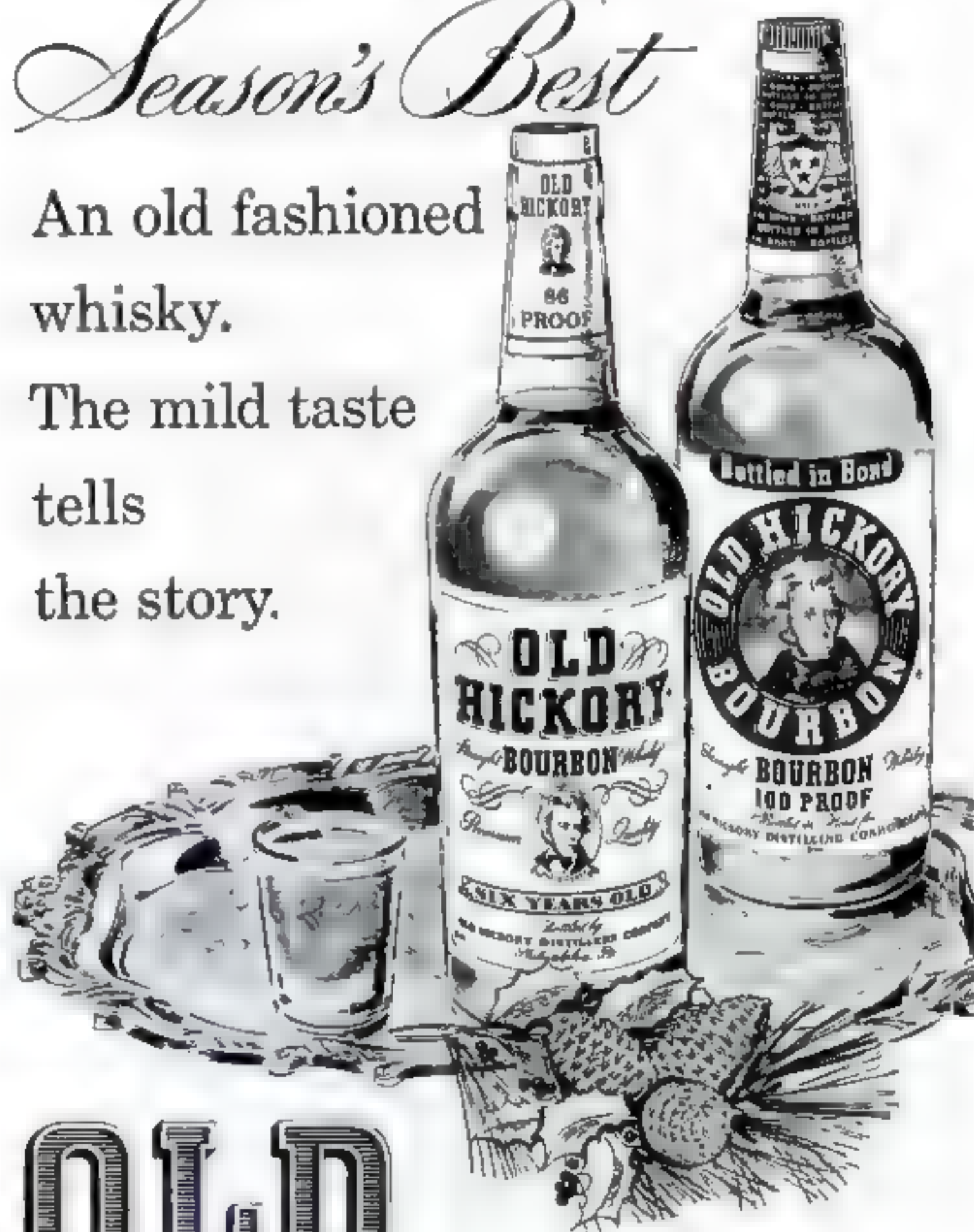
CONTINUED



*Season's Best*

An old fashioned  
whisky.

The mild taste  
tells  
the story.



**OLD  
HICKORY**

STRAIGHT BOURBON WHISKY • 86 PROOF AND 100 PROOF • OLD HICKORY DISTILLERS CO., PHILA., PA.





**STAGE REBELLION** by Eugene against domineering mother takes place at play's end. She does not want him to leave, but with help of insurance money that Ben had left him he goes off to college.

## WOLFE FAMILY VISITS THE PLAY

"It was a tremendous emotional experience for all of us," said Tom Wolfe's older sister, Mabel, after the Broadway opening of *Look Homeward, Angel*. She had come from Asheville with her husband, Ralph Wheaton, and her brother Fred especially to see the play which portrayed all three of them. None of them had read the play in advance, and because it covered so many intimate, and sometimes painful, details of their family life, Mabel said, "I went in fear of what I might see or that the audience might titter." But the audience reacted with sympathetic silence, applause and cheers.

Mabel Wolfe Wheaton, about whom her brother wrote, "she has more human greatness in her than any woman I've ever known," has been Wolfe's unofficial historian for years. But though she watched the play with a critical eye, she had little fault to find. She liked Anthony Perkins as Tom but felt that the most true-to-life portraits were by Jo Van Fleet and Hugh Griffith as the mother and father. As for her own character in the play, she felt that the dramatist had made her too much of a drudge in the boardinghouse. "I never made beds," she said, "or helped with the dishes."



**REAL-LIFE RECONCILIATION** took place between Wolfe and his mother after her first shock over publication of *Angel*. Here, at 37, he visits her at Asheville boardinghouse (late Sept. 17, 1950).



**WOLFE FAMILY MEETS ITSELF** backstage at *Look Homeward, Angel*. In the center Mabel Wolfe Wheaton sits in front of Rosemary Murphy, who acts

her in play. At left her brother Fred stands by his counterpart, Actor Arthur Storch. At right Ralph Wheaton looks up at Leonard Stone, who portrays him.





**Your friends will hardly wait to get inside it!** The very look of Heublein's Continental Gift

Box sets a cheerful, holiday mood - says "Warmest Greetings" to your friends. And inside it they will find the makings of a cocktail party—expertly mixed Manhattans or Martinis that are precisely proportioned from the choicest liquors. *And as easy to serve as whiskey.* For cocktails on-the-rocks, simply pour them over ice straight from the Heublein bottle. Or stir with ice and serve in regular cocktail glasses. G. F. HEUBLEIN & BRO., HARTFORD, CONN.

**HEUBLEIN  
COCKTAILS**

FULL STRENGTH • READY-TO-SERVE



IN THE CONTINENTAL GIFT BOX 12 BOTTLES OF HEUBLEIN'S MANHATTAN COCKTAIL 60 PROOF 12 BOTTLES OF HEUBLEIN'S MARTINI COCKTAIL 60 PROOF

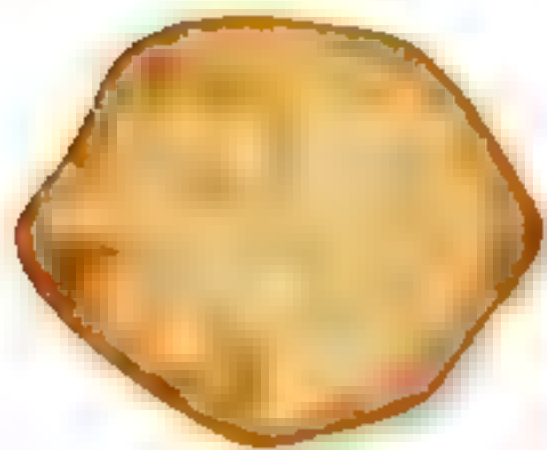


# 10 women make their party plans



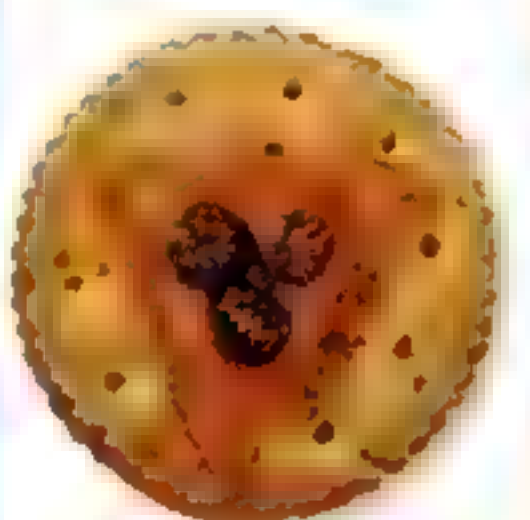
## SUBURBAN MOTHER

includes new CHIPPERS, chip-shaped potato crackers, in her party plans. Dandy for dips: salmon, pickle, mayonnaise, onion soup and sour cream, or plain, crisp and chippy.



## EXECUTIVE'S WIFE

feeds hubby's business friends Nabisco Snacks. They go for zippy, crisp, rye flavored RYE THINS... with pimiento and anchovies, smoked salmon and capers or just as is.



## CLUB PRESIDENT

nomnates all Nabisco Snacks for club affairs. She serves tangy, lively flavored TRIANGLE THINS by themselves or topped with red caviar or parsley-sprinkled liver pâté.



## NEW BRIDE

picks Nabisco Snacks for her first round of entertaining. Tops very thin, very crisp WHEAT THINS with egg spread and olive slice or with tiny franks. Wonderful plain, too!



## BACHELOR GIRL

keeps the crowd happy with plenty of VERI-THIN PRETZELS. Their salty, hearty taste is baked to order for a beverages. And they're a pleasure to eat just by themselves.



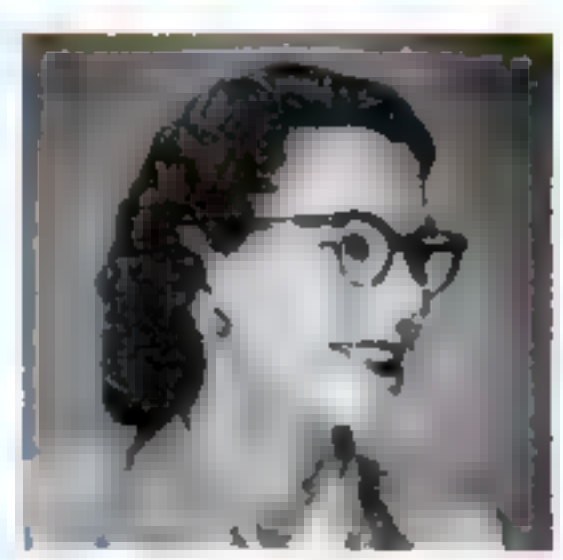
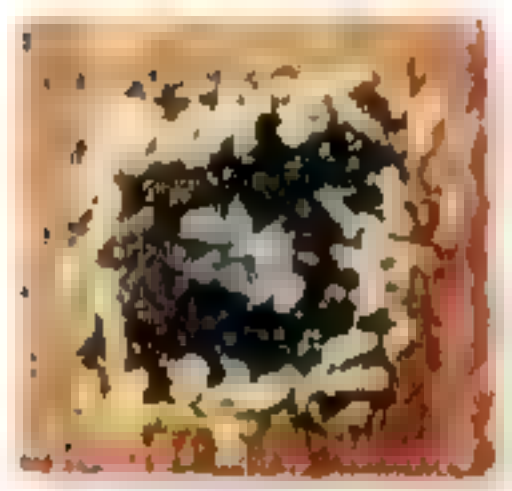
Nabisco bakes the tastiest snacks!



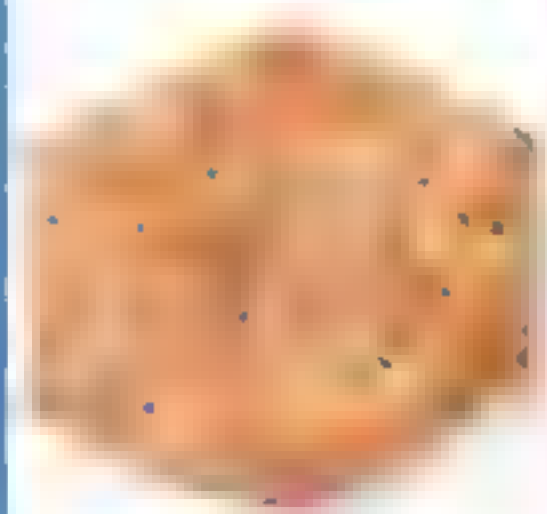
# with Nabisco Snacks



**WASHINGTON HOSTESS**  
completes a Nabisco Snack spread with the wheezy, nutlike flavor of TRISCUIT WAFERS. Good plain, topped with caviar and egg on shreds or with a single shrimp and dressing.



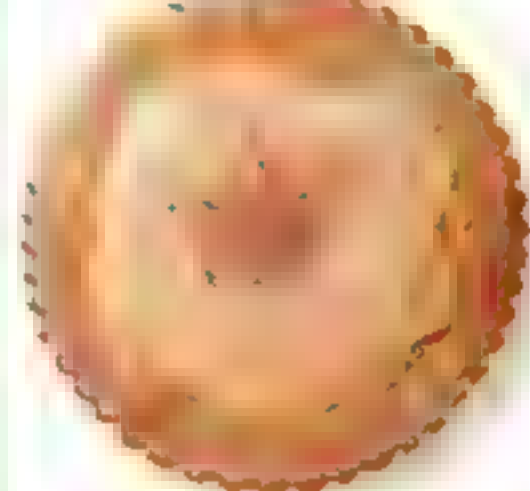
**SCHOOL TEACHER**  
goes in for light entertaining with the pungent, racy taste of NABISCO BLEU CHEESE CRACKERS. Great with bleu cheese and bacon, avocado dip and mushrooms or all alone.



**PRIVATE SECRETARY**  
passes Nabisco Snacks around at Saturday night get togethers. Serves CHEDDA BITS with garlic butter or cheddar cheese on ham. The crowd loves 'em right out of the box, too.



**YOUNG GRANDMOTHER**  
treats the family clan to the aged cheddar flavor of RITZ CHEESE CRACKERS. Delicious as they come, topped with grilled cheese; or with salami and green pepper spread.



**COLLEGE GIRL**  
scores a hit with the gang with Nabisco Snacks. Serves crispy, salted VERI THIN PRETZEL STICKS with tangy beverages . . . cool lemonade, grape juice or cranberry punch.



Plan a party today . . . at your grocer's display!

NATIONAL BISCUIT COMPANY®



# YOU'LL KNOW WHAT'S NEW WITH INSTANT CHASE & SANBORN

the second you open the jar!



the **NATURAL  
COFFEE AROMA  
HERE...**

...tells you there's  
**MORE FLAVOR  
HERE!**

No wonder Instant Chase & Sanborn gives you a

Captured! That elusive natural coffee aroma so important to complete coffee enjoyment. Now it's yours, the second you open a jar of Instant Chase & Sanborn. It rises to greet you . . . mouth-watering and tantalizing . . . tells you there's so much more flavor in every cup. Give yourself a Flavor Break. Buy the full-bodied coffee today.



**INSTANT CHASE & SANBORN** - the full-bodied coffee!

ANOTHER FINE PRODUCT OF STANDARD BRANDS INC.





HERDING THE SWANS, PARK EMPLOYEES ATTEMPT TO GET THEM TOGETHER BEFORE LASSOING THEM. THE BIRDS FLAPPED FRANTICALLY IN VAIN EFFORT TO FLY

## THE BIG SWAN ROUNDUP

Last spring Philadelphia proudly purchased 18 swans from Holland and installed them on the Schuylkill River in Fairmount Park. The big birds thrived on the Schuylkill and swam decoratively and contentedly about. But one day last week six of the birds ventured two miles down the river, were caught in a freak current and swept over a three-foot dam. Since their wings had been clipped they were unable to fly back to their pen

and food. Before they could be rescued six more birds were caught in the current and over the falls they went.

For three days the bordering shore line was baited with food, but the swans ignored it. Then park employees took to boats to lasso them. Their first rodeo efforts netted six birds. Then the men prepared to return for the other six who, though hungry, showed no interest in going back home.

SNAGGING A BIRD, THE HUNTERS DROP A LASSO OVER ITS FLUTTERING WINGS. THEY HAD TO CHASE ANOTHER BIRD OVER A HALF MILE BEFORE CATCHING IT







## How to keep Dad from hogging Junior's trains:

*(Give him a 60-second Polaroid Land Camera)*



# SPORTS



MANUFACTURING BASKETBALL SHOE FOR JEAN LEFEBVRE, BONIFACE COSTA FITS THE SOLE TO UPPER AT HYDE ATHLETIC SHOE CO. IN CAMBRIDGE, MASS.

## SIZE 21 DILEMMA IN BASKETBALL SHOES

When 7-foot 3-inch Jean Lefebvre, 20, of Epnais-les-Louvres, France arrived on the campus at Spokane, Washington, Gonzaga University was sure it had a solution to all its basketball problems. But Gonzaga had not considered Jean's feet. To play basketball Jean had only a pair of misshapen size 17 sneakers with the toes cut out which he wore while playing in France a year ago. Urgent calls to shoe manufacturers for size 19s brought more than a dozen astonished replies but only three acceptances of the odd order. A pair of 19s was rushed to Spokane, but they too curled Jean's huge toes. Jean padded painfully through the first two games, showing scoring promise but tired footwork. Last week a shoe man produced a pair of 21s and, as Gonzaga sighed with relief, Jean happily wiggled his toes in his new shoes and began playing more agile basketball.



IN A DORM CLOSET, JEAN'S SHOES DWARF HIS ROOMMATE'S SIZE 7 LOAFERS

**HAPPY IN SIZE 21s**, Jean tries on his new basketball shoes. They are four sizes larger than "record" athletic shoes the same company made for Primo Carnera.

CONTINUED







**ANOTHER GONZAGA HERO,** Bing Crosby, Class of '23, meets freshman Lefebvre at administration building. Jean gets scholarship, free English tutor.



**SATISFYING BIG APPETITE,** Jean has one of three daily milkshakes with coed Sue O'Laughlin. He also drinks a gallon and a half of orange juice.



**LEFEBVRE'S LIKENESS,** a giant cutout held by assistant coach, is used by College of Idaho players as they practice shooting high for Gonzaga game.

**IN FIRST GAME,** Lefebvre towers over Helpless College of Idaho team as he drives in for a layup. He played about half the game, scored 13 points.





For Christmas **Hit Parade** has what you want!

the tobacco...  
the tip...  
and the taste!



The tobacco you want  
... only the choicest grades  
of quality tobacco. And it's all  
100% natural tobacco!

The tip you want  
... exclusive T-7 filter, devel-  
oped especially for Hit Parade,  
lets you have your flavor, too!

The taste you want  
... the freshest, live test taste  
of any filter cigarette. Get new  
Hit Parade today!

© A T Co. PRODUCT OF The American Tobacco Company - "Tobacco IS OUR MIDDLE NAME"

New crush proof box or familiar pack





FORD • THUNDERBIRD • EDSEL • MERCURY •



The EDSEL!  
To give **YOU** a wider choice

1 EDSEL CITATION 4-DOOR HARDTOP

2 CONTINENTAL MARK III LANDAU

3 FORD FAIRLANE 500 CLUB VICTORIA

3 THUNDERBIRD

4 MERCURY MONTCLAIR 3-DOOR TURNPIKE CRUISER

FORD MOTOR COMPANY THE AMERICAN ROAD, DEARBORN, MICHIGAN

more new ideas, more **YOU** ideas



# LINCOLN • CONTINENTAL



**YOU** are the reason behind the Edsel. Every new idea started with our opinion of your opinion. Like the pushbutton transmission control in the center of the wheel. Or the trunk that unlocks from a key at the dashboard. Edsel's 18 models - from station wagons to convertibles - give us a bigger family - with a car for you, at the price you want to pay.

- in the Ford Family of Fine Cars



Give one as a gift. Buy one for yourself. Only razors that give truly automatic blade changing . . . only single edge blades with a double life. Choose from: **A** Hydro-magic Injector razor with flip-lever cleaning, 24 "Gold" blades, travel case, \$1.89. **B** Three 24-packs of Hydro-magic "Gold" blades, \$2.94. **C** All-new Long Handle Injector razor, 12 Thin-edge blades, travel case, \$1.00. **D** Three 20-packs of Thin-edge blades, \$2.19. **E** All-new Classic Handle Injector razor, 12 Thin-edge blades, travel case, \$1.00.

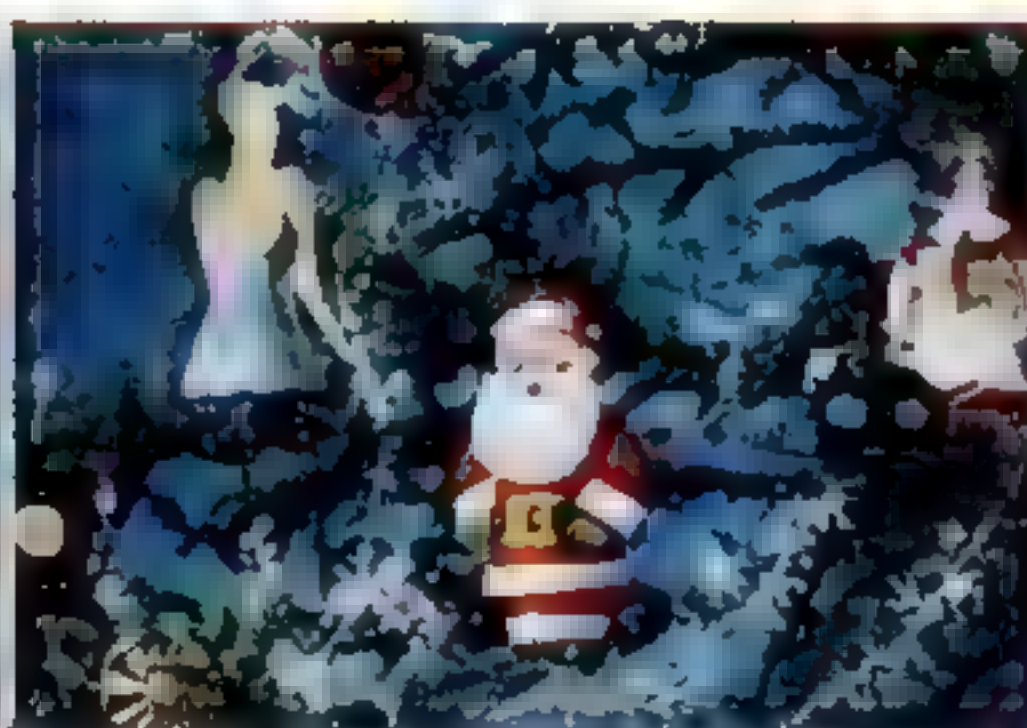
# Give one

of these shaving gifts



# Get six

holiday figures free



Free! 6 decorative make-'em-yourself Christmas figures with every Eversharp-Schick holiday gift pack you buy!

These colorful, easy-to-make decorations make your home say Merry Christmas. Use 'em on the mantel, as a table centerpiece, on your tree, in a window. You get a smiling Santa Claus, three bright Choirboys, two gay Angels. Each stands about 7 1/4" high. Easy-to-follow instructions for quick assembly. Get yours today!



Look for this **EVERSHARP-SCHICK** Christmas display at your favorite store.



# Junior-High Epic of Crusades

PUPILS PRODUCE THEIR OWN MOVIE TO LEARN HISTORY

Several hundred battalions in upstate New York, a determined pack of young men, defended themselves against an onslaught of Crusaders. In the struggle, their homemade bows and brandished spears were thrown away, and the Crusaders ground out the climax to a battle that was a real one. The movie is an imaginative production, and the pupils, for weeks, have been working on it. The movie is a real one, and the pupils, for weeks, have been working on it. The movie is a real one, and the pupils, for weeks, have been working on it.



CONTINUED

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**LITTLEST CRUSADER**, seventh-grader Tom Dallesera, 11, fits visor of her cardboard helmet during a scene of shooting. Fake beard is a gift to the school.



## JUNIOR-HIGH EPIC CONTINUED



**PROCESSION OF CRUSADERS**, led by their king, leave castle to fight the infidels in an opening scene as girl at right films sequence with camera on tripod.



**STORMING FORT**, Saracens thunder across drawbridge with a battering ram while a pupil films the action. Saracens burst through the gate and captured fort.

**SARACEN AT BAY**, seventh-grader Tommy Taylor, 12, prepares to duel with a Crusader as he tries to defend the fortress against Crusader attack.





Accompanying procession are women mournfully anticipating death of their men. Same fortress was used as headquarters alternately of Crusaders and Saracens.

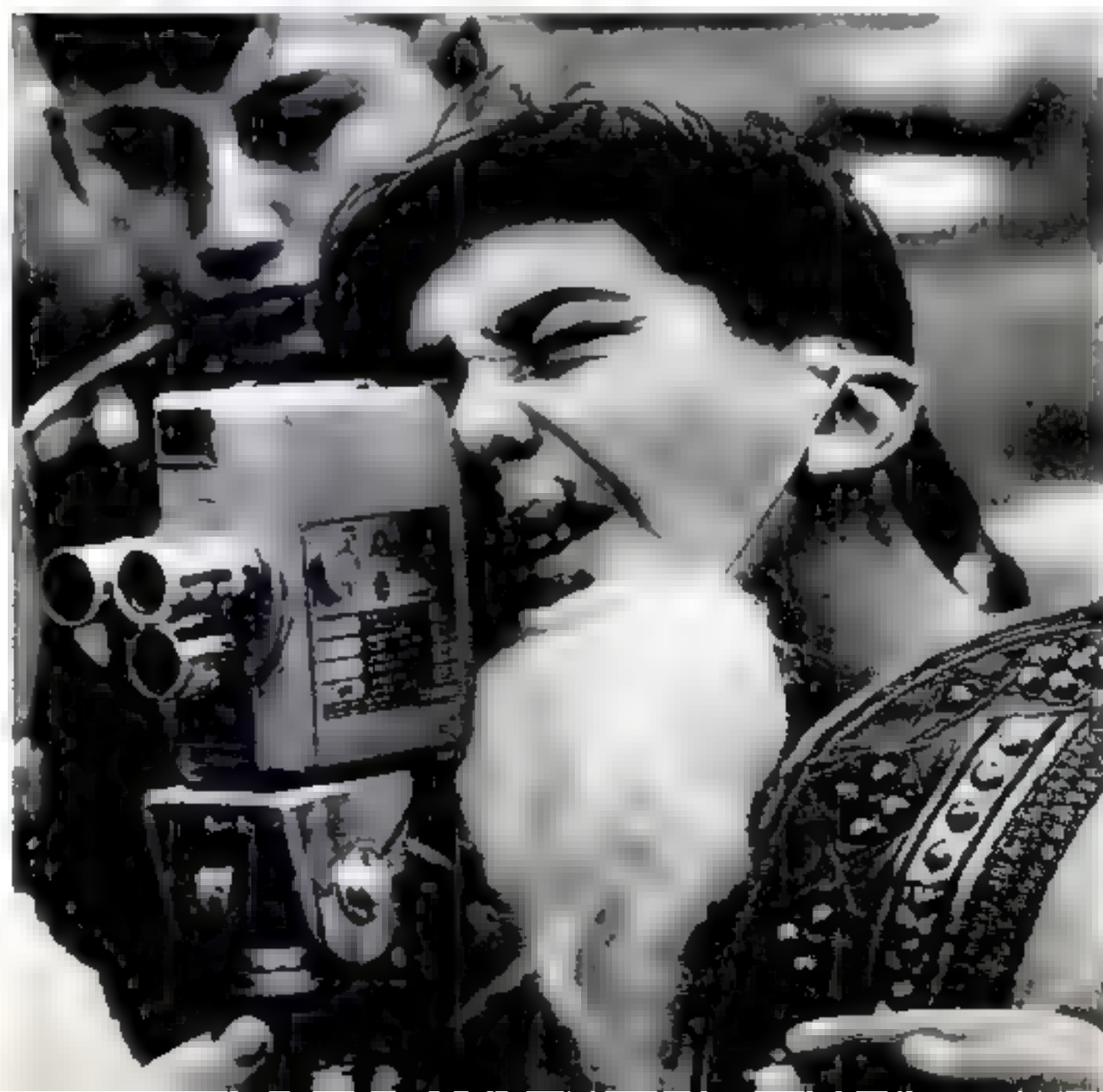


**SNEAKED STEED** with horlap body rears spiritedly under Crusader king, 12-year-old Carol Ferrell, as she rallies troops for "England and St. George."



**PAPAL MANIFESTO**, calling on Christians to free Holy Land, is promulgated by Pope Urban II (Carol Ferrell) as Teacher Ralph Lent directs camera crew.

**INQUISITIVE INFIDEL** Tommy Taylor pauses to take a peek through eyepiece of camera. Film makers shot 350 feet, recorded sound on tape.







**THE PACKAGE.** Jennie Smith, sings out *My Very Good Friend in the Looking Glass* at Velvet Club. Song was written especially for Jennie by Bob Allen and Al Stillman who thought a wistful refrain would fit her fresh voice.

**THE PACKAGERS** line up with Jennie as Eddie Senz gives her new hair-do. Seated behind her is her manager Mike Stewart. Standing left to right are Bob Jones, designer of her record album cover, Bob Crystal, who lobbies disk jockeys to play her songs, Eddie Heller, who chooses them; Herb Helman, who publicizes them.



## Operation Jennie

Jennie Smith is the neatly packaged result of her agent's belief that a singer with that name would go places. The idea hit Mike Stewart, a hustling New Yorker, eight years ago, and last January he found the right girl to go with it. She is 19-year-old Jo Ann Kristof from Charleston, W.Va., who wants to sing and doesn't care what name she uses.

Stewart named her Jennie Smith and launched Operation Jennie on the proposition that a new singer, like a new breakfast cereal, need only be well packaged to be popular. To design the package he enlisted teachers, recording experts, stylists, designers. He had Jennie's figure trimmed of 15 pounds. He had her voice trained so it would take on color without losing its pleasant quality.

Recently the big push for Jennie reached pay-off proportions. She sang on Steve Allen's TV show, opened with star billing at a New York nightclub and had a record, a 12-tune RCA Victor LP titled *Jennie*, on the market. Between appearances Jennie was studying dancing and trying to do a lot of dieting. "I love strawberry shortcake which I'm not allowed to eat anymore," Jennie says. "So far it's been the greatest sacrifice I've made for my career."







# What does she want for Christmas?

*What every woman wants! All your love...and all the loveliness to keep your love.*

*Help her keep that loveliness with a really feminine gift and a gift that's fun to use—*

**LADY SCHICK ELECTRIC SHAVES!** Made the way a lady's shaver should be made!

One side for legs  for the smoothest shave possible—the other side for underarms  for a shave so close, but so gentle she can use her deodorant immediately.



ORIENTAL



SOPHISTICATE



FORGET-ME-NOT



BALLERINA

*Makes skin so soft and smooth—no one would ever guess she shaves.*

Most stores offer a 14-day FREE HOME TRIAL that starts Christmas Day.

# Lady Schick

*the most feminine thing since legs!*

**P.S. Give her one of these and she'll never borrow yours again.**

*Even more to choose from—\$14.95 up—a small price to pay for years of feminine comfort.*



*They come in the most delightful and convenient carrying cases ever designed for a shaver.*





'Round the world...

*Happiest way to say Happy Holidays!*

"The world agrees on 'GILBEY'S please'!"

**GILBEY'S GIN**



THE INTERNATIONAL GIN—distilled and bottled in the United States, England, Canada, Australia, South Africa, France, Italy, Argentina, Brazil, Chile, Mexico.  
GILBEY'S DISTILLED LONDON DRY GIN, 90 PROOF, 100% GRAIN NEUTRAL SPIRITS. W. & A. GILBEY, LTD., CINCINNATI, OHIO  
DISTRIBUTED BY NATIONAL DISTILLERS PRODUCTS COMPANY



# OPERATION JENNIE CONTINUED



**AT LICENSE BUREAU** Jennie is fingerprinted for permit she needed to sing in New York cabarets.



**AT RESTAURANT** Jennie spoons down orange sherbet, only luxury allowed her in reducing drive.



**LEGGING IT** in dance studio. Jennie struts about in leotard behind her teacher, choreographer June

Taylor. Purpose of instruction is to train young singer to move more gracefully before audiences.



**IN TV STUDIO** Jennie gets advice from Mike Stewart and her mother before Steve Allen show.

**SINGING TO HERSELF**, Jennie runs through—*Sometimes I'm Happy* before going on Allen show.







**DEDICATION CEREMONIES** begin with parade of stewardesses from 35 lines using Idlewild. On platform are Mayor Wagner, Governors Harriman and Meyer (third, fifth, sixth from left). Marble plaque repeats Statue of Liberty inscription.



**NEW BUILDING** stretches behind the new 11-story control tower. Beneath the arched roof is the building's main concourse. Two customs areas like the one shown above right are to the rear of the concourse on the first floor level.



**BENEATH** TRANSLUCENT CEILING WHICH PROVIDES "DAYLIGHT" NIGHT AND

**FINE NEW FRONT DOOR  
FOR JET-AGE AMERICA**





DAY, TRAVELERS GO THROUGH CUSTOMS CHECK-OUT COUNTERS IN ONE OF TERMINAL 5 CUSTOMS AREAS. LEFT: SPECTATORS WATCH FROM GLASSED-IN BALCONY

Air travelers returning from abroad through New York's Idlewild Airport, the nation's busiest international terminal, have had to endure drab, overcrowded buildings and seemingly endless customs waits. Last week, with appropriate whooshes of oratory from two governors, a mayor and aviation experts, New York dedicated a vast, striking and uniquely efficient terminal building designed for the jet age. Built at a cost of \$30 million, the three-story expanse of glass, aluminum and stainless steel stretches 11 city blocks and has 600,000 square feet of floor space. It

is as crisp and functional as a supermarket—whose techniques it borrows.

Inbound passengers will walk from planes into the building while their baggage is whisked along to a claiming area. From there it is carted to be checked out like Saturday-night groceries (*above*) by a customs man. In most cases time for the customs operations should be cut in half. To speed movement further, outbound passengers will use a separate floor. By 1965 the building, part of a \$150 million terminal city of 22,000 workers, will be handling 3.3 million international air passengers annually.





**A TREAT FOR TRAVELERS.** Idlewild's Fountain of Liberty sends illuminated sprays 60 feet into the pre-dawn air. The fountain, whose waters flow from 9.6 nozzles, stands in a 200-foot-wide pool. A raised walkway runs from the fountain

through the 150-foot control tower to the arrival building. The fountain area was designed by New York Port Authority architects with Wallace K. Harrison. The arrival building was designed by the firm of Skidmore, Owings and Merrill.





*Take your choice from a variety of magnificent custom-wrapped packages.*

## The world's most wanted gift whisky is now in its handsome holiday wrap, ready for you to give

This year, give the world's most wanted gift of whisky. Canadian Club is waiting for you now at your favorite liquor store, all dressed up in foil, ribbons and bows at *no extra cost*. Because it captures

the lightness of scotch and the smooth satisfaction of bourbon, Canadian Club's distinctive flavor is welcome to anybody, whatever his taste in whisky.

*Gift*  
"The Best In The House" in 87 lands...

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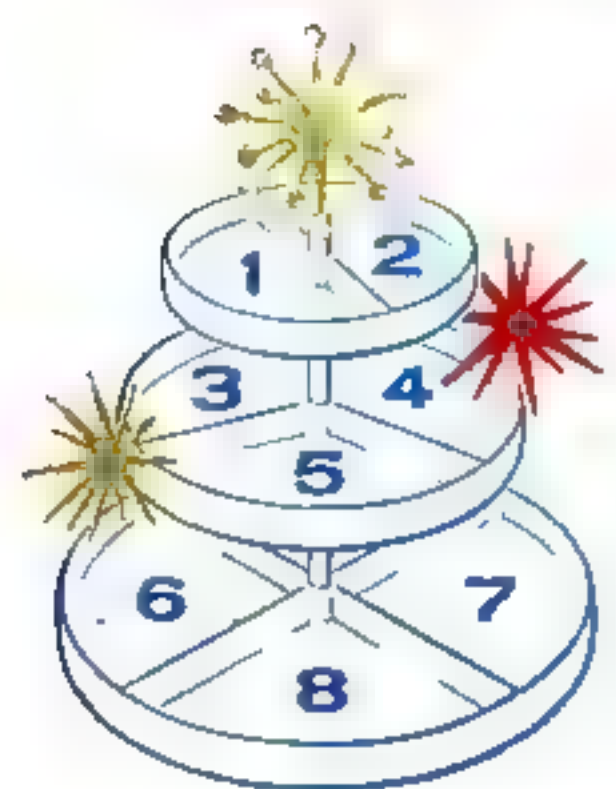
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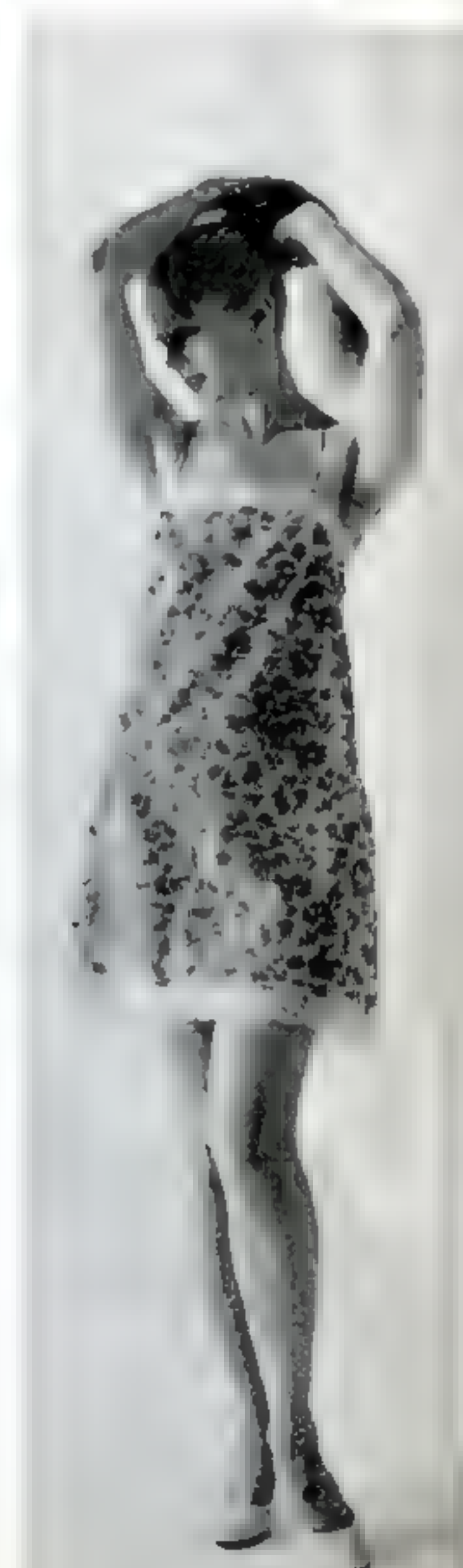
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**FLAPPER NIGHTGOWNS** are shown here in a 1920 chorus line pose. They are an eyelet-trimmed V-necked nightgown (Seamprufe, \$6), a blue-striped version with a pleated skirt (Barad, \$4) and a flower print (Seamprufe, \$9).

**SHORTEST SLIP** since the '20s is intended to be worn three inches above the knee. Made of flower-printed cotton, it has lace trim on the top and bottom (Iris, \$9).



## Lingerie on a 1920s Kick

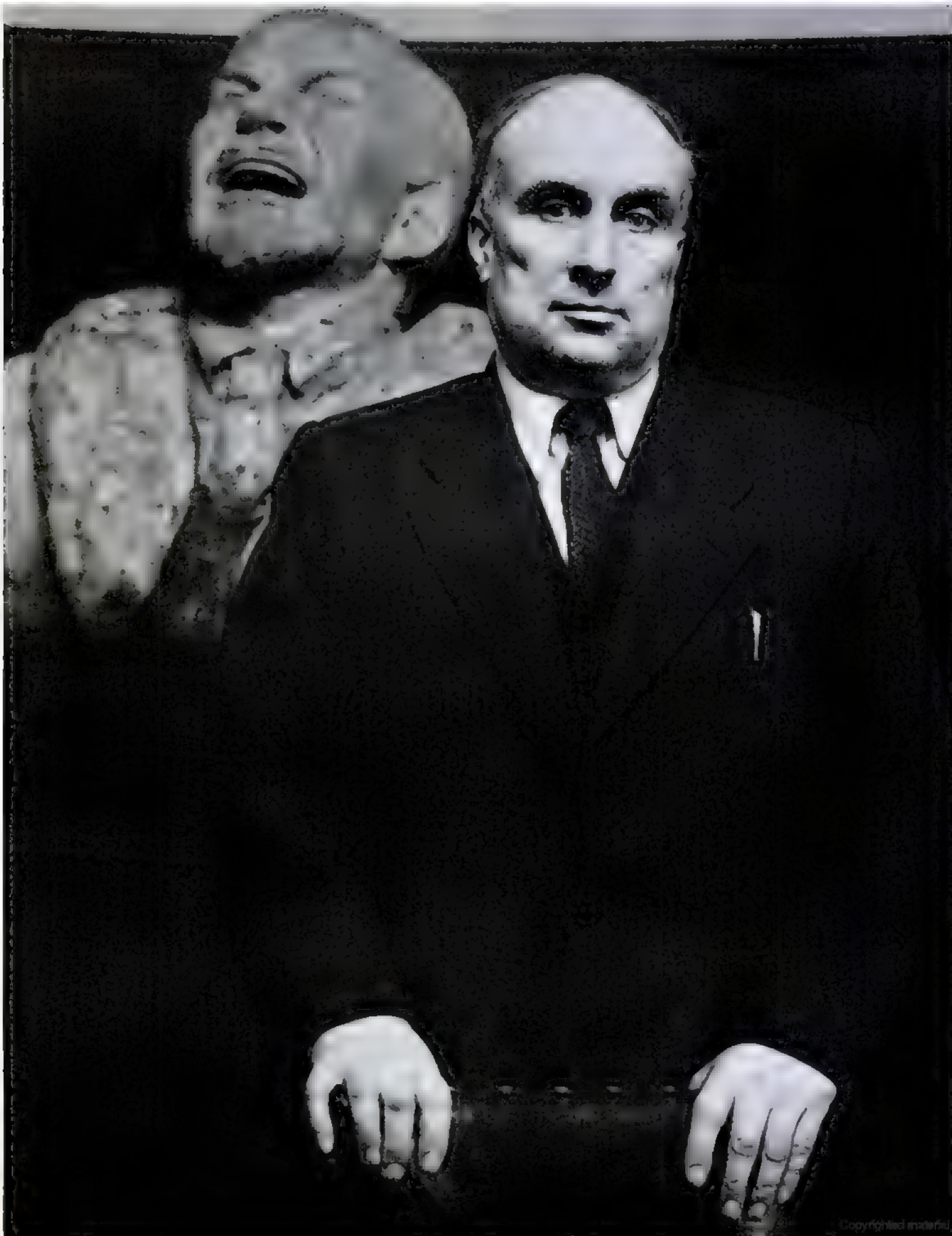
With the male shopper once again on the Christmas prowl, the lingerie industry, although as always depending heavily on the black lace nightgown, has this year produced some jaunty new styles that are likely to give the slinky standby some competition. These underclothes, which are almost guaranteed to make a girl look as if she had just stepped out of the chorus line of a 1920 musical, are inspired by this season's

bag or chemise dress. They closely resemble the original chemise or teddy, the straight-hanging one-piece undergarment of 30 years ago.

The new relatively inexpensive nightgowns are worn with matching bloomers and are of fabrics that are permanently pleated and need no ironing. The very short slip (right), though out of the past, is designed to be worn with the shorter skirts expected next spring.



# FIRST HARD FACTS ON





# ALL RUSSIAN SCIENCES

Field-by-field survey based on U.S. experts' knowledge and Soviet words and deeds shows that Sputniks are but one example of amazing progress

by ROBERT WALLACE

**A**TMOSPHERICALLY the conditions are ideal for observing the Russian earth satellites as they whirl over the U.S. in the cool December twilight. It is not difficult to get a good look at them. But there is something more in the satellites than instruments and batteries and radios and the body of a dog.

To be impressed by the Sputniks themselves or even by the thought of the rocket fuels that threw them into the sky is to be impressed by a detail. It is as though a tourist in Egypt, having clambered up the Great Pyramid, were to go into raptures over the topmost stone. What is important about the pyramid is what lies below. What is important about the Russian satellites is the base of science beneath them.

Just how good is the base of Russian science? The Sputniks were technological accomplishments of a high order, favored projects into which the Russians chose to throw money and scientific endeavor at the expense of other projects. They reveal again, if there was any doubt of it after the Soviet successes in atomic weapons, that the Russians can do very well when they focus their efforts in one place. But where do the Russians stand over-all, in the many studies lumped together as "science"? What accounts for the progress they have obviously made since 1945? How good will they be in 1965?

In the preparation of this report these questions have been asked of many leading scientists in the U.S. and elsewhere in the free world. What follows is a science-by-science estimate of the whole field, sometimes in the words of a single expert, sometimes synthesized from the opinions of several. Perhaps the best general appraisal comes from Dr. Lee DuBridge, president of the California Institute of Technology. Dr. DuBridge, recalling that U.S. science did not start its real rise until a quarter-century ago, makes this rough comparison: "The Russians were in the position after World War II that we were in in the 1920s. They woke up, and they've been going like mad. Whenever that happens, you'll find progress is greater in some directions than in others. . . . It's not like a race between two horses but more like a race between two fleets of 100 yachts. Some of their yachts are ahead and some are 'way back. But their whole fleet is moving faster, and all their yachts could pull ahead."

Before the individual sciences are discussed there are two preliminary points. First, do Western scientists really know what is going on in Russia, and if so, how?

Yes, they do know. Since Stalin's death Russian scientists have been permitted relative freedom of communication with the West. They attend conferences outside the U.S.S.R., they publish articles in technical journals that are available to Western readers, and when they meet their American colleagues they usually speak with candor. In certain fields, at least, their freedom of communication seems greater than that permitted

their counterparts in the U.S.—a situation which troubles many American scientists greatly. Dr. Detlev Bronk, president of the National Academy of Sciences, says, "Unless we have a far greater fund of new scientific knowledge and are making discoveries at a much more rapid rate than the Russians, which I do not believe, we should endeavor to learn from them. If people are our friends we will wish to know what they know and are discovering; if people are our enemies we desperately need to know what they know and think."

In conversation with Western scientists the Russians have been almost garrulous. They have keen professional pride and are wholeheartedly dedicated to their work. When they visit scientific institutions in the U.S., they are impressed by what they see—but soon begin to talk excitedly about what they are accomplishing at home. In this dedication the West should find a warning: the competition is far from spiritless.

A second point is the distinction between basic and applied science, between knowledge which is sought merely for its own sake, and knowledge sought for some specific purpose. The basic scientist examines the stuff of which the universe is made, seeking information about it that can be phrased in a formula which will be true everywhere and forever. In his wake come the applied scientist and the technologist, who seek to find a use for what their predecessor has discovered. The product of basic science, for example, was the information that nuclear explosions are possible. The product of applied science was the atomic bomb.

Basic science is always ahead of applied science. Sometimes the time gap is only a few months, sometimes years. The relationship is important in any evaluation of Russia's, or any other nation's, science.

With these points in mind, here is how we stand as compared to Russia.

**MATHEMATICS:** The Russians have traditionally been strong in theoretical mathematics. Today they are probably ahead of the West in this science from which the most extraordinary insights, such as Einstein's Theory of Relativity, are obtained. But the Russians may lag in the applied mathematics of automation and computers. When the last thorough comparison was made a few years ago, Russian computers were still slower and fewer than ours. Today Russia claims to be building the world's largest and most versatile computing machine, and American experts point out that an extraordinarily good computer must have been used in making calculations before the Sputniks were launched.

**ATOMIC PHYSICS:** Russian emphasis in atomic research has been in the spectacular high-energy field, the production of new particles and the study of the nucleus. Right now the Russians have the world's largest atom smasher, almost twice the size of the largest U.S. machine

CONTINUED



LEADERS OF RUSSIAN SCIENCE are depicted in this painting of the Presidium of the Academy of Sciences listening to a talk by a member (right).

Today the academy, under Alexander N. Nesmeyanov (standing, left), directs the country's scientific projects with considerable freedom from Kremlin control



Gosh, what an upset stomach... and my best customer's coming in today!

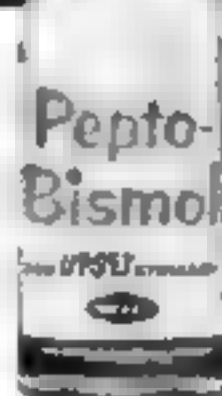
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**HIGH STATUS OF SCIENTISTS** in U.S.S.R. was emphasized when Igor Kurchatov (center), Russia's leading atomic physicist, visited British nuclear lab last year with Khrushchev and Bulganin, who let him hold center of stage.

## SOVIET SCIENCE CONTINUED

now operating. Last week, commenting on the value of this Russian "phasatron" as a research tool, a group of U.S. scientists stated that "a discovery made with it could at any time create a furor similar to that caused by the launching of the satellites."

Other Russian research equipment has also impressed Western visitors. Dr. Robert R. Wilson of Cornell last year saw a 60-inch cyclotron which is virtually in mass production for educational and research purposes. Dr. Arne Lundby of Norway found a teaching laboratory in Moscow equipped with 10 commercially made mass spectrometers, worth perhaps \$500,000 and far excelling any equipment available to students in the U.S. or in Europe for measuring the masses of atoms.

Moreover it is not merely the quality of Russian equipment that is high. The level of knowledge is commensurate. Dr. W.K.H. Panofsky of Stanford, an authority on the design of linear accelerators, last year was asked to chat with a few of his Russian counterparts during a visit to Moscow. "I thought there might be three or four of them," Panofsky said, "but found myself addressing some 30 men and women, all of whom seemed to be experts in my specialty."

**CHEMISTRY:** The level of basic research in this field, as indicated by reports published in Russian technical journals, is not high. Last year a Russian chemist, N. N. Semenov, received a Nobel prize, but it was for a theory of combustions and explosions which he formulated in the 1920s. Apparently the Russians have not yet entered a number of fruitful fields, such as the application of quantum mechanics to chemistry, and they have neglected drugs, vitamins and antibiotics. "Most of their work," says Dr. John Turkevich of Princeton, "is just plain unimaginative."

Some Western chemists feel the apparent lack of progress may be deceptive. "Russian chemists are very close-mouthed, more so than men in other fields," reports Dr. John Flagg of General Electric. "At the Geneva Conference for peaceful uses of atomic energy, delegates from many nations gave papers on the chemical processing of uranium and plutonium—but not the Russians. We couldn't even get them to talk about it. And we were pretty sure they were doing as much as we were. Same thing with high-energy fuels. If Sputnik and Muttnik are any indication, they're ahead of us, but they haven't published anything on the subject." Nevertheless, Western authorities agree that Russia has not poured talent into chemistry as she has into physics. The reason is plain. The great stimulus for U.S. chemistry comes primarily from two sources: private industry, which does not exist in Russia, and medical research, which is neglected there.

**ASTRONOMY:** "Russian astronomy has always been good," says Dr. Otto Struve, head of that department at the University of California. "Ambartsumian, the dean of it, has done brilliant work on the formation of heavy elements at the surface of stars and on certain other ill-comprehended sources of energy. We have only two or three men who compare with him. But it is the young men who concern me. They are training more than we are now. They have caught up with us and will pull ahead in the next decade unless we double the number of youngsters we are training. It is difficult. Our funds have been heavily cut in the past year. . . . People forget how important astronomy is. Nuclear physics and a

CONTINUED



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**DISTINGUISHED TRIO** of scientists (from left), Astronomer V. A. Ambartsumian, Sputnik expert Anna Masevich and Physicist P. L. Kapitza, talk with a visitor from India and a Russian colleague at 1955 meeting of Soviet Academy of Sciences, called to discuss the peaceful uses of atomic energy.

## SOVIET SCIENCE CONTINUED

large part of mathematics wouldn't exist if it weren't for astronomy. We don't need much money, just a little bit more. . . ."

The U.S. possesses the world's largest telescope, the 200-inch instrument on Mount Palomar in California. But the Russians have a 100-incher under construction and are planning to surpass the U.S. with one of 220 inches.

**CRYOGENICS:** This science, the study of the behavior of matter at extremely low temperatures, yields information of the utmost importance to the science of the future. When matter is cooled toward absolute zero ( $-459^{\circ}\text{F.}$ ), its molecules lose speed and its structure is simplified. This makes possible insights which scientists have never before achieved. It is almost as though the tricks of a sleight-of-hand artist were photographed on fast film, then shown in slow motion. Liquid helium, for example, behaves in an extraordinary manner when it is cooled below  $-456^{\circ}$ . It offers no resistance when solid shapes are pushed through it. It can turn some materials, such as lead, into perfect conductors in which electrons float from atom to atom without friction.

The world's great pioneer in cryogenics is Russia's Peter Kapitza, now 63, who heads a magnificently equipped research institute in Moscow. A versatile scientist, Kapitza has turned to other work in recent years—among his present posts is the chairmanship of the State Committee for Interplanetary Travel—but he has inspired a generation of younger men who now pursue his old specialty. Among them is L. D. Landau, generally acknowledged to be one of the two or three foremost theoretical physicists now living. In the 1940s Landau worked out the theory of liquid helium. Today he and his students publish many expert formulations of low-temperature phenomena. As a result, Russia's cryogenics is probably superior to that of the U.S. in basic theory and only slightly behind experimentally. Recently the British low-temperature physicist Dr. David Shoenberg visited the Kapitza-Landau institute and reached the inevitable conclusion: "They are bound to outstrip us."

**SOLID STATE PHYSICS:** In general, solid-state physicists do three things: they study crystals, their shape, arrangement, defects and response to various kinds of outside energy; they find out what magnetic and electric action takes place in metals and ceramics; and they study how to make and test metals with desirable properties. The worldwide interest in solid-state physics is intense. In the U.S. literally thousands of scientists work at it in universities and in the industrial laboratories which produce transistors, semiconductors, magnetic memories, stronger metals and faster computers.

In Russia the great emphasis in solid-state physics has been upon theory and experimentation rather than application. Three of the world's half-dozen pioneers in the field were Russians: Kapitza, Landau and Abram F. Joffe. Their basic research is as good as any to be found in the West, and this somewhat counterbalances the fact that Russia has fallen two to five years behind in application.

**LIFE SCIENCES** In these areas—microbiology, biophysics, biochemistry, plant and animal physiology, cytology (cell research), botany, zoology and paleontology—Russia is generally far behind us. Her once excellent genetics research is still recovering from the

CONTINUED

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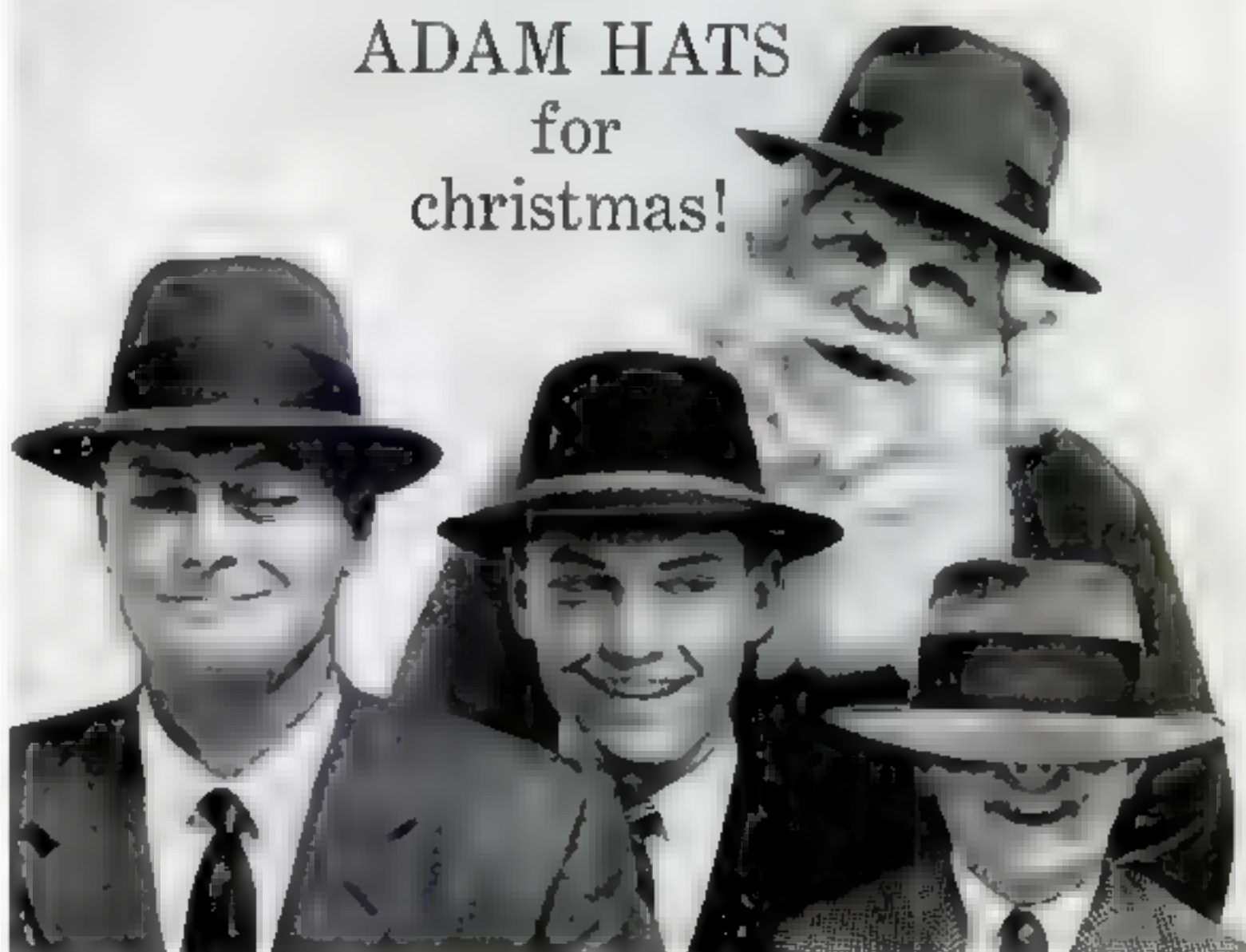
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## SOVIET SCIENCE CONTINUED

great damage caused by "Lysenkoism." Trofim Lysenko, a biologist who was a favorite of Stalin's, championed the mistaken theory that environment, not heredity, is the dominant force in changing and maintaining the forms of life. At Stalin's insistence all Russian biologists were obliged to support this theory, at least publicly. Today Lysenkoism has been denounced by Communist leaders, but Russian genetics has been set back 10 years. Even if the Russians devote the same effort to the life sciences that they now give to others, it will probably be a generation before they can catch up with the West.

**EARTH SCIENCES:** What Russia is capable of accomplishing in a few years is well illustrated by her progress in the sciences of the atmosphere, the oceans and the earth. In prewar Russia oceanography was a scientific stepchild. But since 1945 she has launched an oceanographic fleet with a total tonnage 10 times that of the U.S.'s and a staff of scientists two to three times as large. Russia has assumed one third of the worldwide oceanographic effort connected with the International Geophysical Year, a larger share than that of the U.S. Qualitatively Russia's work does not yet equal that of American oceanographers, but her quantitative lead may soon translate itself into superiority in quality as well.

In the sciences of the atmosphere Russia may already have achieved superiority, although in some areas the U.S. still holds a lead. Dr. Harry Wexler, director of research for the U.S. Weather Bureau, makes this comparison of Soviet and U.S. meteorology: "Our best minds and best instruments are still superior to theirs, but they have more minds, more instruments and more money, as well as more expansion planned for the future."

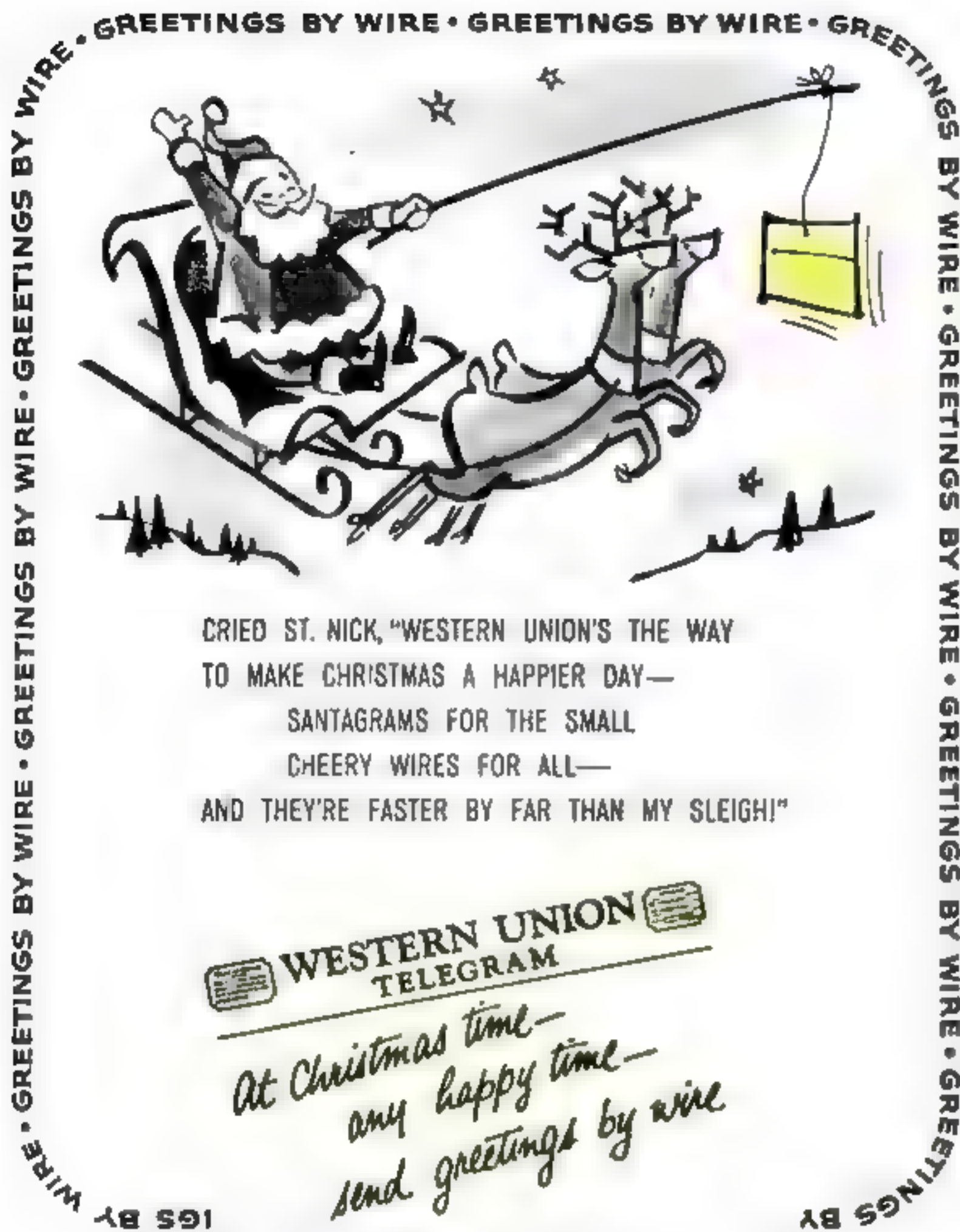
Russian research in the solid earth itself is not up to the U.S. standard in several particulars. She is weak in many branches of geology, and her theoretical work on the composition of the earth's crust and core is not impressive to Western scientists. But in some areas Russia is ahead. Her applied chemical prospecting—the detection of mineral deposits by the trace elements washed out of them and found farther down the watershed—is being copied by U.S. geologists. Russia's seismology, the study of quakes and other shock waves in the earth, is better coordinated and staffed than that of the U.S. The Soviets are probably also ahead of us in geodesy—the measurement of the earth's size, shape and gravitational field.

Russian drilling rigs available for geophysical studies are remarkably good. At a recent conference in Canada, U.S. Geophysicist Roger Revelle remarked wistfully that it would be nice if a hole could be drilled 10 miles into the earth so that scientists might at least know exactly what lies beneath the submarine and subcontinental coating of basalt. Up spoke a Soviet scientist who said that Russia already has perfected the necessary drilling rig and is only looking for a good place to sink the shaft.

**A**s the foregoing brief roundup indicates, Russia stands very well in most of the sciences. In some sciences where she lags, the lag may be intentional: her science is encouraged and subsidized not for the benefit of the people but for the state. The recent Russian advances are not merely isolated technological breakthroughs; they are the result of a long-term emphasis on basic research which is the great strength of Soviet science. An estimated 20,000 Soviet workers annually enter this field, where the great discoveries (including those leading to new weapons) are made. By contrast the U.S. increases its basic research staff by fewer than 10,000 workers a year, concentrating instead on applied research leading to the better air-conditioner and the noiseless commode.

Russia has assumed her challenging scientific position only since the end of World War II. But Russia is no intellectual parvenu. Her scientific tradition extends back at least to the time of Peter the Great. The Russians have always been excellent theoreticians—Einstein's relativity, for example, is rooted in the abstruse non-Euclidian geometry which was developed by the Russian Mathematician Lobachevski around 1830. The sudden flowering of Soviet science may seem startling to Americans who like to think of Russia as a nation of peasants, but in fact the new blossom hangs from an old bough. It is only the impetus that is new.

At the end of World War II the Russians deliberately set out to obtain world domination through science. Their scientific effort is organized like a pyramid with the Soviet Academy of Sciences, headed by A. N. Nesmeyanov, at the top. The academy has some 500 members, all leaders in the various sciences, who act as a huge board of directors in channeling the national program. Scientific projects are assigned to various institutes for development, and there is little duplication of effort. Such national control of science would be wholly unrelatable in the U.S., but some over-all direction may be required



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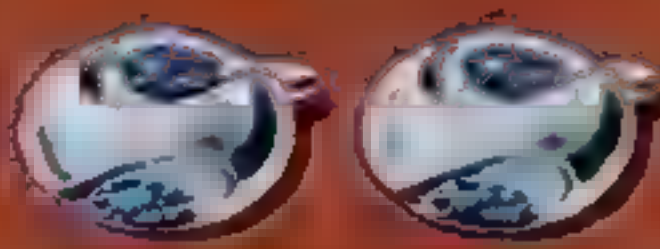
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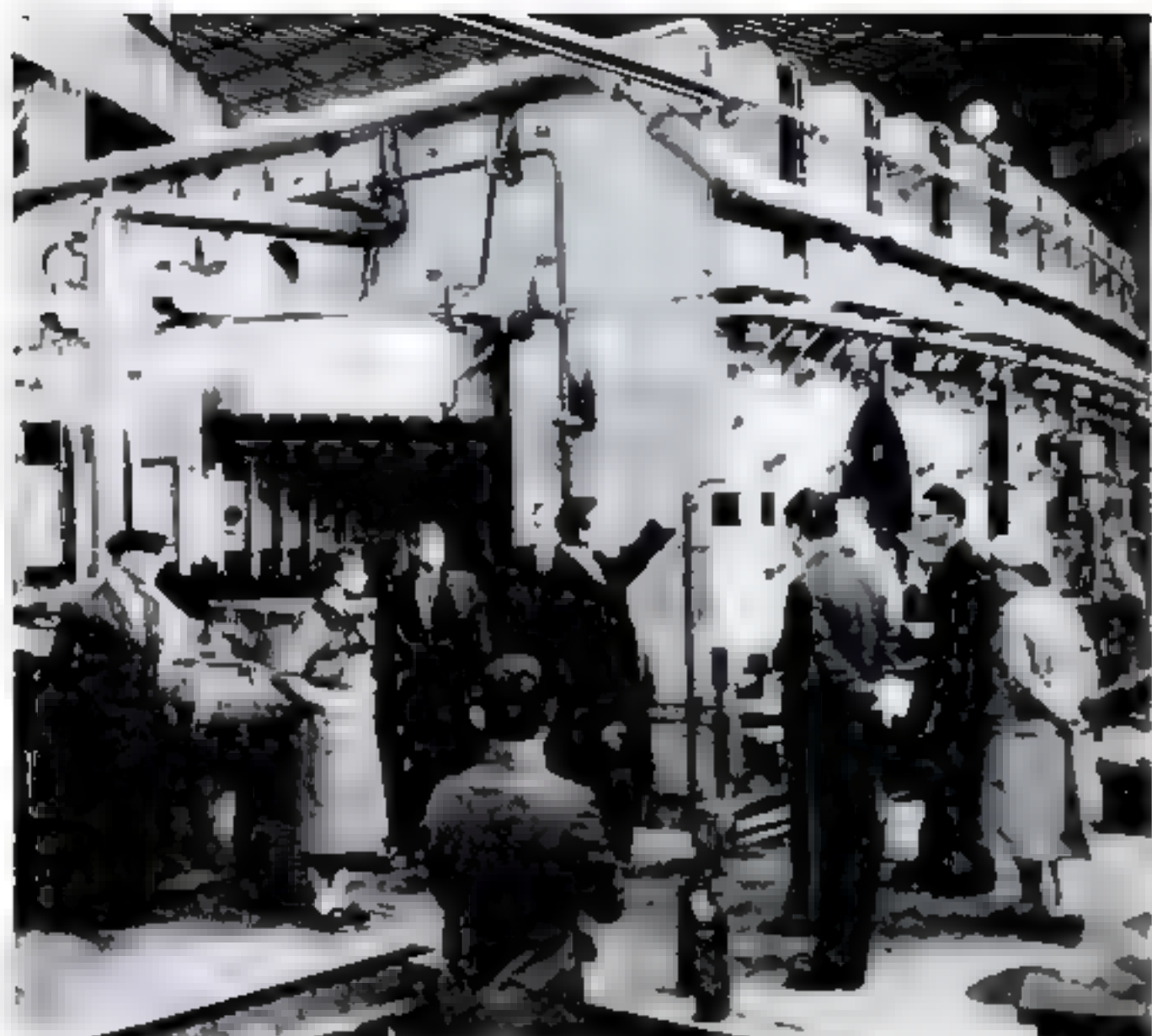
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**WORLD'S MIGHTIEST ATOM-SMASHER** at Dubna, Russia is powered by huge 36,000-ton electromagnet whose operation is explained for Western newsmen by Soviet nuclear scientist Valentin Petukhov (center).

## SOVIET SCIENCE CONTINUED

if the U.S. is to compete successfully with Russia. At any rate, there is strong sentiment among American scientists for the setting up of a national department of research and development, perhaps headed by a scientist with Cabinet rank, so that the U.S. can eliminate some of the waste which Russia has already eliminated.

When money is required for scientific projects, the Soviet Academy of Sciences sees that it is supplied. Scientific equipment is extraordinarily expensive: a single atom-smasher may cost \$100 million, the firing of one large rocket as much as \$10 million. But whatever Soviet scientists request of their government, they get. For example, the huge Soviet phasatron is driven by a magnet containing 72 million pounds of iron. Had Soviet scientists been in less of a hurry for the phasatron, they would have discovered, as Western scientists have, that such a mountain of iron is not necessary. But they were in a hurry, and they got precisely what they requested. Today a standard wisecrack among Soviet scientists, showing off the machine to Western visitors, is, "We had to melt down the Iron Curtain to make it."

Dr. Maurice Stacey, head of the department of chemistry at the University of Birmingham, England, last year visited Leningrad's Institute of High Polymers (plastics) and reported that "the amount of equipment is incredible. There was five or six times as much as in the comparable department of a British institution. . . . One wondered if they could use it all."

### A clearinghouse for information

**I**N addition to furnishing whatever equipment may be requisitioned the Soviet government provides lavish support in research services. Theoretically a scientist can keep abreast of world developments by wide reading of technical journals, but in practice this is almost impossible. There are too many journals in too many languages. To solve this problem the Russians have established an Institute of Scientific Information, described by a British zoologist, Dr. D. R. Newth, as "the really shattering thing" he saw during a visit to Moscow last year. The institute abstracts about 8,000 scientific journals from all over the world, including 1,400 from the U.S. and 800 from Great Britain, annually publishing a well-indexed mass of information larger in volume than a set of the *Encyclopaedia Britannica*. Said Dr. Newth, "When a journal comes in, all the papers in it are put on filing cards and each is allocated to a senior scientist, not a hack, to abstract. The delay between the time a paper is received and the time its abstraction is completed is well under a year, and they are bringing it down to six months. No other agency in the world is doing this job. I wish to God I could read Russian."

Newth found that Soviet scientists had an impressive knowledge of developments in the Western world. "In an argument with some of them," he reported, "I quoted the works of two Britons named Biggs and King. One of the Russians replied, 'Yes, but you haven't

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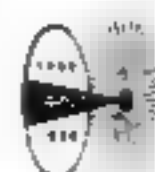
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But—for fastest, surest relief—for feelable relief in minutes from the symptoms of a cold or the flu, take two Coldene Tablets every three hours.

Coldene Tablets . . . 1. give effective relief from sneezes, sniffles, stuffy nose . . . 2. help ease raw and irritated throat membranes . . . 3. are the only cold tablets that relieve a cough . . . 4. calm that tiring, ache-all-over feeling . . . 5. get into the bloodstream fast

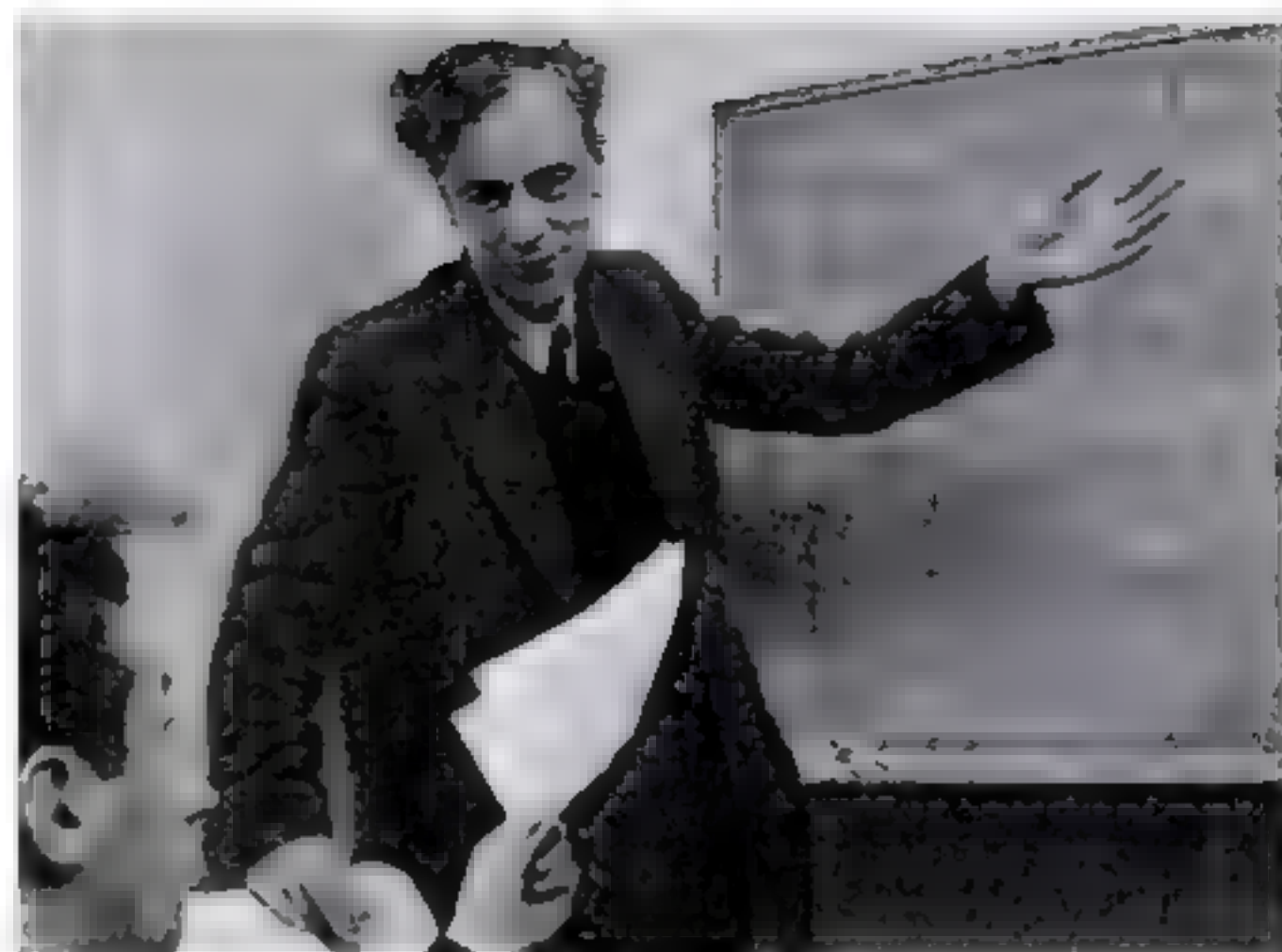
Ask your pharmacist to examine the Coldene Tablet prescription printed on each bottle and carton. He'll tell you Coldene is powerful, fast, effective. Twenty tablets \$1.

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# Coldene



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**RENOWNED PHYSICIST** Lev D. Landau, who ranks as one of world's two or three top theorists studying the behavior of matter at extremely low temperatures, teaches at the Institute for Physical Problems in Moscow.

## SOVIET SCIENCE CONTINUED

seen their latest paper. It qualifies their previous conclusions.' " To his chagrin Dr. Newth later discovered that the Russian was right.

The U.S. has nothing comparable to the Russian Institute of Scientific Information and is therefore grievously handicapped. The Atomic Energy Commission supports translation of several foreign publications, and many scientific societies publish abstracts covering foreign work in their own fields. Private industries also maintain their own libraries. But of 1,200 Russian scientific journals subscribed to by the Library of Congress, only 30 are regularly translated and made available to U.S. scientists. Thus there is no central clearinghouse where a scientist can quickly find out what he needs to know.

This lack of current information is frustrating and costly. Recently, for example, the National Science Foundation reported that a group of American laboratories spent five years and more than \$200,000 researching a problem in electrical circuitry, only to discover after the conclusion of the work that the research had long since been done, and the results published in Russia.

### The rewards of Russian research

**T**HE mere provision of equipment and research services was not of course sufficient to produce a thriving science in Russia. Something had to be done for the scientists themselves. This, too, the Soviet leaders have done. Upon the traditional base of respect for intellectuals in Russia has been grafted an official system of material rewards. The head of the Academy of Sciences, A. N. Nesmeyanov, receives about \$20,000 a year, a sum which in Russia makes him the equivalent of a top U.S. executive. A high-ranking Soviet professor like Landau may draw \$18,000. Soviet scientists, almost alone among Russians, may equip their homes with refrigerators, TV sets and record players. They may maintain weekend cottages in the country and spend their vacations on the Black Sea Riviera. They are, except the topmost political and industrial brass, the most favored class in the Soviet Union. "Class distinctions are greater than anything I had ever imagined," reported a British chemist last year. "Scientists and professors always seem to have a host of servants, maids and chauffeurs." It is a remarkable paradox: by serving Communism scientists receive capitalistic-size rewards. As Dr. M. H. Trytten of the U.S. National Academy of Sciences has remarked in wonderment, "Somehow a system of government based on materialism has found a way to bestow its highest rewards on men who deal in abstract ideas."

But the lavish satisfaction of professional and personal wants still cannot assure that scientists will produce great work. Freedom of thought and communication are also required. A few years ago, while Stalin still lived, Dr. Vannevar Bush predicted in his book *Modern Arms and Free Men* that the scientists of the free Western world, in the very nature of things, were bound to surpass the strait-jacketed scientists of Russia. This seemed to be a safe forecast when Dr. Bush wrote his book, but times have changed. The case of Peter Kapitza serves as an illustration.

From the mid-1930s to 1946, Kapitza was popularly regarded as the supreme scientist of Russia. But then he gradually fell from favor

**CONTINUED**





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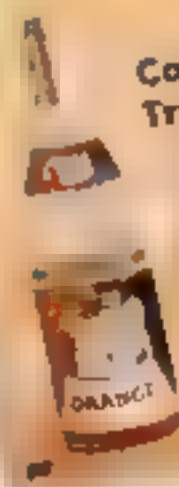
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and was finally placed under house arrest. No one in the West knows precisely why, but the best guess is that he objected to Russia's post-war isolation of science, its secrecy and Lysenkoism, and spoke up about it. Then in 1955, as suddenly as he had been downgraded, Kapitza was restored to favor. He was reinstated as director of his institute, and according to rumor he ran up the steps of the building, followed by a crowd of students, shouting "No more secrets!"

Here the paradox expands: by performing well for a slave state some Soviet scientists are paid off in freedom. Within limits which would be intolerable to Western scientists but seem tolerable to them, Soviet scientists may do and say what they please. When their science collides with Marxist dogma, it is the dogma and not the science which finally yields. For years Stalin frowned on the teaching of Einstein's theory of relativity because he considered it to be based on decadent premises with which Marx and Lenin would not have agreed. Today Soviet scientists teach the theory openly (as they always did covertly), and the Party holds its tongue.

Needless to say, not all Soviet scientists enjoy freedom. Mathematicians and physical scientists have the most, social scientists the least. It would be a foolhardy sociologist or psychologist who chose to differ with Communist doctrine. For this reason the best Russian brains go into the "safe" physical sciences, the second-rate brains into the "unsafe" social sciences and the humanities. Herein lies a long-range danger for the West: an unbalanced Soviet culture, capable of producing fearsome weapons and space ships but untempered by the humane studies and virtues, is a child with a knife.

But in the giving of freedom lies a long-range danger. Freedom spreads. Will the scientists infect others? What happens then?

### A call for peace

**R**ECENTLY a group of 196 Soviet scientists, headed by such men as Kapitza, Nobel Prize winner Semenov and academy head Nesmeyanov, sent out a highly interesting communication. It suggested that "a broad international conference of scientists" be held to discuss the dangers of thermonuclear war. "We Soviet scientists express our full readiness for common effort with scientists of any other country to discuss any proposals directed toward the prevention of atomic war, the creation of secure peace, and tranquillity for all mankind."

The communication repeated some of the old Communist propaganda demands, such as cessation of atomic bomb tests, but it appeared to have something more in it. Dr. Eugene Rabinowitch, editor of the U.S. *Bulletin of the Atomic Scientists*, thought that it did and urged that Western scientists meet the Russians half way. So did U.S. industrialist Cyrus Eaton (C & O Railroad, West Kentucky Coal, Portsmouth Steel). It "indicates a willingness on the part of scientists to do their part toward cooling the passions of statesmen," Eaton said. It may indicate something else too: Khrushchev's dilemma. In order to make scientists produce he must give them freedom, and with freedom comes responsibility and a sense of the worth of man. When scientists start thinking about such things, perhaps the whole Communist contrivance goes up the spout.

The foregoing may be too long-range a hope—Khrushchev may provoke war before the scientists provoke peace. But it is a hope. Setting it aside, one can leave Khrushchev chewing on his paradox and his problem and look at another aspect of Soviet science, its future, which involves the Soviet educational system.

Most of the leaders of Soviet science today are men in their 50s and older who received their training in the West before World War II. In the near future Russia must begin to rely on home-trained products. It is too early for anyone to make an accurate estimate as to their quality, particularly their capacity for independent thinking, but their quantity will obviously be great. Earlier this month, addressing a NATO conference in Paris, U.S. Senator Henry M. Jackson pointed out that "scientific manpower is being graduated in the Soviet Union at a present per capita rate approximately twice that of the NATO community as a whole. Russia now turns out more scientifically trained people than any Western nation, and is accelerating the output at a higher rate than any nation."

Needing scientists, the Soviet simply trains them, and the individuals have no choice. Even if Russian students had unlimited choice they would doubtless choose science in any case. Students can see the rewards given to scientists. Moreover there are not many other fields a bright young Russian can enter. There is no demand for talent in private industry, advertising, salesmanship or marketing. There are comparatively few lawyers in Russia. Medicine is not a highly regarded profession: practicing physicians, roughly 70% of whom are women, rank only slightly above factory foremen. Science is the thing.

The entire Soviet educational system is geared to discover and develop potential scientists. All Soviet children attend the "Seven-Year

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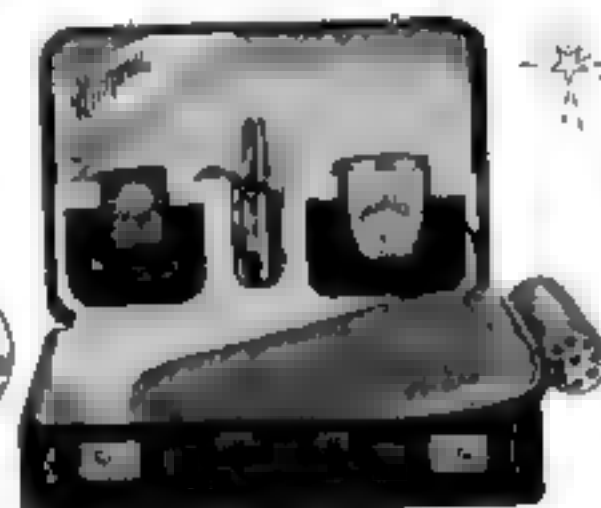
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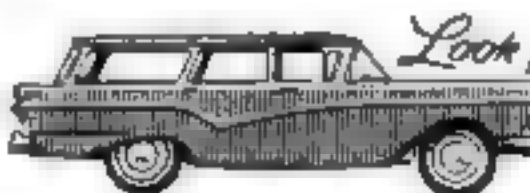
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## SOVIET SCIENCE CONTINUED

School." The brightest go on for three more years, graduating at about 17. These schools operate on a six-day week and a 10-month year. By graduation, the Russian child has absorbed a tremendous amount of science education: 10 years of mathematics through trigonometry, five years of physics, four years of chemistry, five years of biology and one year of astronomy.

As the Russian student goes through school, he is watched closely for signs of intellectual ability. If he has talent, he is sent on to an institute of higher education where the Soviet incentive system takes hold. He is paid to study, and the higher his grades, the more his pay. The brightest students continue studying and continue to be paid until they are full-fledged scientists. In sum, the Russian system of science education is a frighteningly good one, for Russian purposes. It can only be assumed that it will produce an even greater challenge in the future than the challenge that exists now.

As to where Russian science is heading and what its status will be in another generation, no one can say. Some Western scientists suggest that the Russians suffer from an inferiority complex which is distilled in the arrogance and the rudeness of Khrushchev. Now that the Russians have shown the world, through the Sputniks, that they too can produce technological wonders, they may become a little easier to live with and may begin to direct more of their scientific effort toward peaceful projects. Others suggest just the opposite: that the Russians will continue to concentrate on weapons, hoping to defeat the West or blackmail it into surrender.

In any case the West has no choice but to assume the worst. It may come in two forms: in military conquest, the primary concern right now, or in peaceful conquest, through the Soviet state-controlled system of education.

In its hundreds of thousands of trained technicians Russia is producing men and women who know how to operate uranium mines, to build and run power plants, to do laboratory work, to put science to practical use. Within a generation the Soviet Union will have an enormous pool of such technicians, far more than she needs domestically, who can be used as a living export commodity. Sent into Africa, India, Indonesia, they may develop these areas according to the Communist scheme while the U.S., still talking bravely about free enterprise and Point Four, declines. It is this prospect, in addition to the purely military implications, that Americans may consider as they watch the Sputniks tumbling through the cool twilight over their secure and perhaps still somnolent country.



**SCIENTIFIC SYMBOL.** Sputnik 1 was displayed in full-scale replica in Moscow last month to fascinated crowds at a Soviet industrial exhibition.





"It's a rich man's kind of car...but my kind of price!"

"I might be a rich man myself some day... but why wait! I feel like one right now in my new Plymouth! It has the luxury of cars costing thousands more. And yet it's right in the low-price 3! No wonder they're saying: *There's no catching Plymouth!*"

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TRADEMARK



# Havana jaunt for 132, all on the boss

## DRUG MAKER CLOSES PLANT AND PICKS UP TAB

"So many Americans travel so much these days," says Claiborne Robins, president of the A. H. Robins Co., "they forget how many millions more Americans almost never move from home." Robins does what he can to remedy the situation. Once a year he closes down his Richmond, Va. pharmaceutical company and takes his employees on a trip. In past years they have gone en masse to New York, Washington and Miami. This year Robins spent \$40,000 to take 132 of them on a five-day all-expenses-paid trip to Havana.

There they hit tourist high spots in the morning, the hotel pool in the afternoon and

then went on to the nightclubs. After five days the vacationists were bleary-eyed from lack of sleep, but turned the train trip home into the most festive party of the vacation. Dressed in Havana-bought regalia, they tramped through the aisles singing, shouting and banging bongo drums. "This is my first holiday in 10 years," said one secretary, who had left five children at home. "I'd forgotten what fun life could be." Among the souvenirs the vacationists returned with were 301 bottles of rum, 102 bottles of perfume, seven drums and a stuffed alligator—all bought with the \$100-per-person allowance the boss had thoughtfully provided.



**SETTING OFF.** Claiborne Robins (left) leads employees from the plant. After overnight train ride to Miami they boarded planes for the hop to Havana.

**COMING HOME.** BOSS CLAIBORNE ROBINS IS CARRIED DOWN AISLE OF TRAIN BY CHEMIST JOHN RICHMAN (LEFT) AND RESEARCH DIRECTOR ROBERT MURPHEY







**GANGING UP ON THE BOSS** Secretaries Betty Gibson (left) and Lucile Krasnitsky (right) join in trying to push him in hotel pool. He pushed them in instead.



**EMBARRASSING THE BOSS**, a night-club dancer pulls him on stage to teach him grind and hump. "Thank heavens my wife saw it wasn't my idea," he said.



**IN "DOUBLE SWAN DIVE"** LUCILE KRANITZKY AND CHEMIST ROBERT JORDAN PLUNGE INTO SWIMMING POOL OF THE HOTEL NACIONAL WHERE THE PROOP STAYED



**LOSING HER HEAD**, Packer Thelma Moore pokes it into an old cannon on a tour of Morro Castle, the ancient Spanish fortress which overlooks Havana harbor.

**USING A HAT** she... Scott amuses co-workers with a trapeze act... from a Cuban night-spot.





ABOUT NEXT WEEK'S SPECIAL TWO-IN-ONE ISSUE

# 'America's World Abroad'



**A**T this time, when our prestige around the world is in question, it is important for us to remember that there are more than two million Americans abroad. They comprise an army of official and unofficial ambassadors whose everyday conduct, dealings and didoes add to or subtract from the stature of our nation in the eyes of other people. Their activities range from striking oil in Venezuela to a mission surgeon running a hospital in the Cameroons; from a concert artist touring in Europe to a Minnesota boy who is a house guest of a Buddhist family in Japan; from expatriates living it up in Mexico to an Arkansas professor's family living through their first strange and eventful days in India. And there is the military, widespread and ready at SAC bases in Morocco, at Army outposts in Korea and on sea patrol with the Seventh Fleet.

In all, the picture of America's World Abroad is an exciting one. Inspiring too. But to date nobody has summed it all up. Next week LIFE will—in a special year-end issue devoted to this

single subject. In more than 120 pages of words and pictures, in more than 45 pages of striking color illustrations including specially commissioned paintings, you will get a complete picture of how vast and varied is the influence of our countrymen in foreign lands. You'll see who goes abroad and why and what they do. And in seeing, you will be better informed and, very likely, amazed, at the good marks for America our citizens can make in this crucial time for our nation.

Like previous special year-end issues (Christianity, The American Woman), this will be a "double" issue, priced at 35¢ and combining twice as much editorial value as you would find in the two issues it replaces. And like previous "double" issues, it has been almost a year in preparation, with virtually every one of LIFE's 300-member staff helping a hand in its production at one time or another. The imagination and effort has gone into this issue, and we are sure you will get a lot out of it. We



## PADLOCK PICKING PAWS

Jimmy, a 3-year-old raccoon, has been living at Lollypop Farm, a Humane Society shelter near Rochester, N.Y., since he was a couple of weeks old and was picked up on the side of a road. He is too tame to run away, but he likes to get out of his 3½ by 3½-foot pen and wander around the farm. When Jimmy moved in, his pen had a latch on it, but he soon learned to poke his paws through the wire and lift it. His keepers put a padlock on the door, but Jimmy learned how to remove that too if it was unlocked. "Now," says the farm director, "we have to make sure the lock clicks or Jimmy will bust loose."





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Symbol of life, the fir tree on your Christmas carton of Chesterfields means the perfect gift for friends who like their pleasure big



Jolly old  himself!

Symbol of joy, Santa Claus brings greetings with this Oasis Christmas carton to friends who enjoy the refreshing taste of Menthol-Mist



GIVE L&M CHESTERFIELD - OASIS  
TO THE SMOKER ON YOUR LIST

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